

Vol. V. No. 9.

LOUISVILLE, KY., APRIL 5, 1906.

STONE EDITION.

## **VULCAN CHILLED SHOT**

Rapid Rubbing, Sawing, and Turning Granite, Marble, Slate, Onyx, Hard and Soft Stones

VULCAN GRIT WORKS - ZANESVILLE, OHIO C. H. JONES, QUINCY, MASS. New England Agent.

## **VULCAN CHILLED SHOT**

A Superior Article. Let
Us Prove it. Write Us
Now For Samples and
Prices :: : : : : :

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The Blue Ridge Marble Co.

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MICHAEL COHEN, St. James Building, Breadway and 26th St., NEW YORK CITY.

"DUGAN'S INVISIBLE PATCHER,"

"MEYER'S GERMAN CEMENT AND LIQUID."

Directions for using with every can.
ck constantly on hand. There are no better materials on the market. "Nash's Cubing Book."

This Space Will Attract Others as it Did You.

Wardwell Electric and Steam Stone Channellers HAVE STOOD FOR ECONOMICAL QUARRYING

GADDERS, STEAM DRILLS, BLOCK WAGONS, DERRICKS, WIRE ROPE,

QUARRY EQUIPMENT OF ALL KINDS.

STEAM STONE CUTTER COMPANY,

RUTLAND, VERMONT.

We're after you. Wire for space.

SEE ADV. PAGE 9

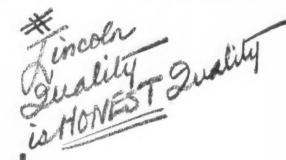
ROCK PRODUCTS is read everywhere, ask your salesman if you don't believe it.

Blocks Sawed, Planed and Cut Stone for Building and Monumental Purposes. Send Plans for Estimates in all kinds of Stone.

CADEN STONE CO., 411 to 425 E. Ohio St., Evansville, Ind.

Let Us Help You.

OUR WANTED AND FOR SALE COLUMNS DO MORE BUSINESS THAN THE STOCK EXCHANGE.



One of our customers in Newark, New Jersey, says "We believe your Gang Saw is absolutely the best on the market." They have used our machinery fifteen years.

Stone Working Machinery for the "Missouri Family" -- people that sit back and say -- "Come on now--Show me!"

These are the stoneworkers that buy our

## Standard Size Gang Saw

Let us quote you, anyway, on this or any machine to

work stone. Ask for Catalog K-or state your needs.

of stone 10 x 6 x 6 -we make makes it cut more stone per day bigger sizes, too, of course. With steel frame this garg weighs ten (short) tons-with timber frame, twelve. No similar tool built so heavy-none so

The saw that handles a block strong-and yet less power than any saw that costs so little.

Absolutely up to the most exacting modern requirements-a saw fit for even your plant. Want

## LINCOLN IRON WORKS RUTLAND, VERMONT

## PITTSBURG CRUSHED STEEL CO., Ltd.

PITTSBURG, PA., U. S. A. Patentees and Sole Manufacturers of

Diamond Crushed Steel



of every description.

Angular in shape, made from high-grade Crucible Steel. Tough and lasting. Saws, Rubs, Grinds, Polishes Granite, Stone, Marble, Brick, etc. Does it cheaper and faster than any other Abrasive. Write for prices and samples.

Sole Agents for Celebrated "Samson" Chilled Shot. Samples and prices furnished on application.

Compressors Stone Tools

American Air Compressor Works, 26 Cortlandt Street, NEW YORK CITY.

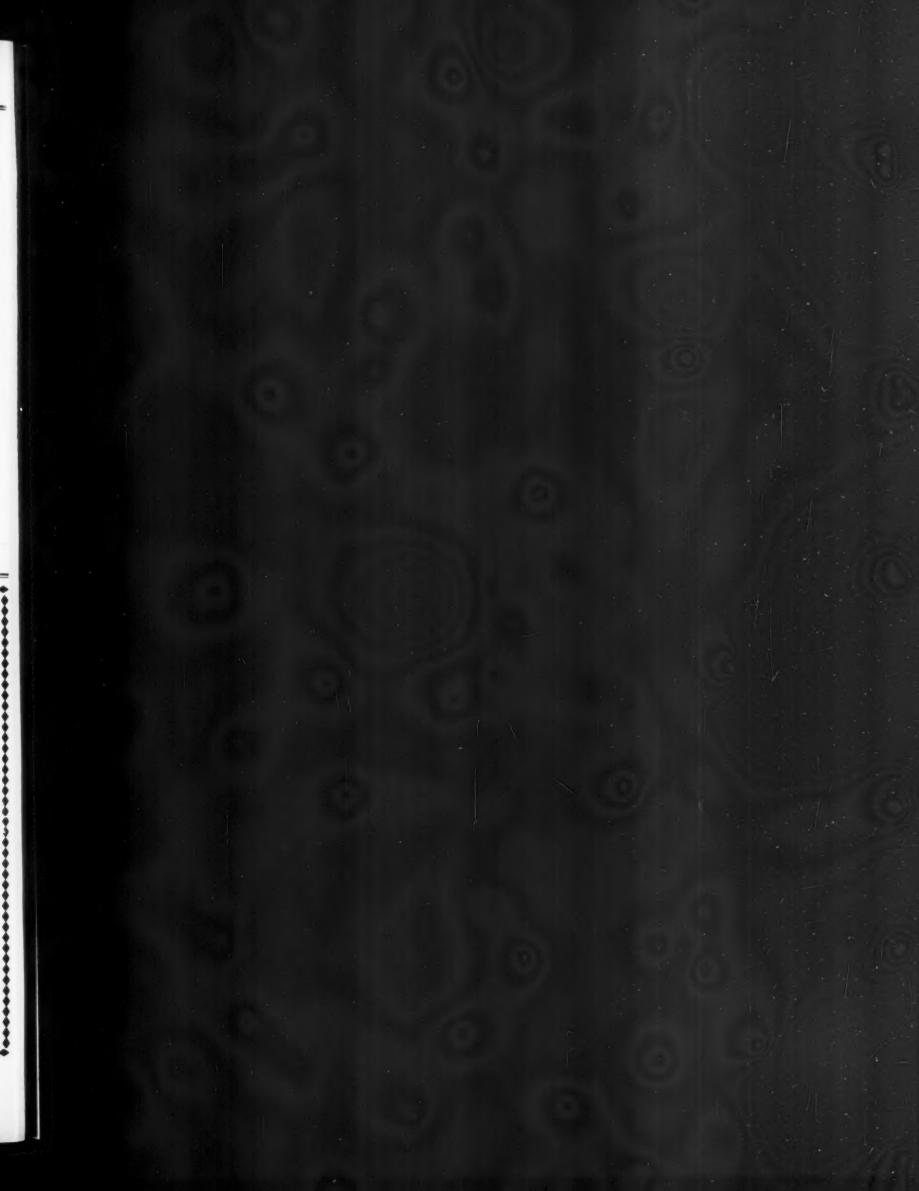


MANUFACTURERS OF ALL CLASSES OF

Monumental Work in Barre Granite ALSO QUARRIERS.

A. ANDERSON & SONS, BARRE, VT.

Tell 'em you saw it in ROCK PRODUCTS.



Vol.

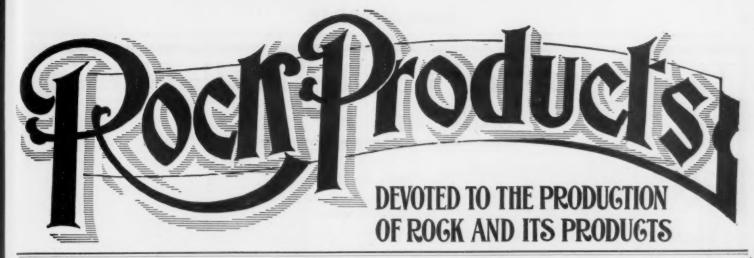
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STONE EDITION.

## FORMAL OPENING.

Cut Stone Contracting Concern In New Orleans Show Their Well Equipped Plant to a Select Gathering of Their Friends.

## PRACTICALLY A NEW INDUSTRY THERE

New ORLEANS, LA., March 31 .- The Schutten & Fallon Co., Ltd., of New Orleans, La., are operating one of the most complete cut stone, marble and granite plants in the South. Every prospect of success seems to exist for this long needed industry. They occupy the square bounded by Cortez, St. Louis and Scott Sts., and the main spur of the New Orleans Terminal railroads

The cutting shed is 150 feet long by 60 feet wide, and the yard space is served by a 50 foot span of tramway, 200 feet in length, on which is operated a thirty ton traveling crane built by the New Albany Manufacturing Company. Throughout the plant power is derived from two 75 K. W. generators of 230 volts, made by the Crocker Wheeler Co., of Ampere, N. J. The generators are direct connected to Reeves high speed engines, which take steam from a 300 H. P. water tube boiler built by the Heine Co., of St. Louis, Texas crude oil is used for fuel, the burners being furnished by the Corsicana Equipment Co. Eight barrels of oil a day are required, the boiler carrying a steam pressure of 100 pounds.

A Blaisdell air compressor geared to a 35 H. P. motor furnishes compresed air at the rate of 300

feet a minute; this is used for the pneumatic tools, and also for raising water from a driven well. Da'lett and Kotten too's are chiefly in service, F. R. Patch & Co. of Rutland, Vermont, have installed two saw gangs, one 12x8x6 feet, and one 10x61/2x6 feet, these are driven by Crocker Wheeler motors connected by gears and pinions at the ratio of one to seven. Patch also furnished the larger types of polishing machines, lathe, rubbing bed. 14 ft in diameter, Reihle machine, Miller oval cutting machine, and circular cutting off saw, each of which has its individual Crocker Wheeler motor, of capacities ranging from 35 to 5 H. P.

There are half a dozen Cavichi pneumatic polthe New Albany Manufacturing has one of its reliable stone planers installed and



INTERIOR VIEW OF CUTTING SHED.

judging by the stacks of beautifully stacked limestone it is keeping up its record with the other high class machinery. All kinds of marble finishing are in view-kitchen sinks, plumbers slabs,



GANG SAWS AT WORK.

switchboards, wainscot, and carved building and monumental work

When the representative of Rock Products callei the big saw gang was sending fifty blades through a block of Alabama marble at the rate of three inches an hour, and the smaller gang was going at even a better rate through a block of Georgia creole.

Italian marble is imported direct by steamer at the same ocean rate as New York, thus giving this new industry decided advantages over St. Louis and Chicago, which have hitherto enjoyed the bulk of southern trade.

In the storage yards are blocks of Italian, verd, antique and onyx to the value of many thousands dollars.

This large concern had a formal opening on March 22, when a number of architects and build-ers, bankers and other representative citizens were present and shown through the plant. The two new engines were christened by Miss Isabel O'Connor, sister of the secretary. One of the engitles was named Charley, in honor of Mr. Charles Schutten, and the other John, after Mr. John H. Fallon. Several speeches were made and champagne flowed freely. It was an exceedingly happy occasion, bringing the new firm into closer touch with those who may be their customers as the years go by.

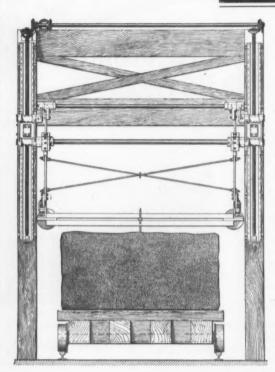
Chief among buildings in hand are the Young Men's Hebrew Association club with base of Ash-lar and moulded sill and course of white limestone: Fairbanks building. from W. McMillan's quarries. of Bedford stone,

Winnsboro Granite Co.'s stock and Venable Bros, granite were also being worked up into base courses for several banks and hospitals. Besides these are the E. A. Carrere residence; and the marble and granite for the St. Joseph's parochial school building. This was a present from Commodore Pizzati. The same firm also has from Commodore Pizzati. The same him also has contract for a shaft and statue of Italian marble for Orange Camp, Woodmen of the World. The shaft is twenty-five feet high. This is for the McDonoughville cemetery. A ve y han isome monument and coping of Barre granite has just been completed for the Leonold Weil family. It is the largest monument in Gentilly cemetery. The monument was carved from a solid piece of granite that weighed twelve tons.



GENERAL VIEW OF THE PLANT SHOWING BAILBOAD FACILITIES FOR RECEIVING AND SHIPPING STONE.

## The Thomson Patent Parallel-Motion **GANG and RIPSAW**



These saws can be seen in operation at any of the following stone yards:

CARR & BALL,

Harrison, N. J.

B. A. & G. N. WILLIAMS, 68 St. and Ave. A, N. Y.

J. J. SPURR & SONS,

Harrison, N. J.

BARR, THAW & FRASER CO., Hoboken, N. J.

DURIE & DAVIDSON,

Harrison, N. J.

DAVID G. MORRISON, L. I. City, N. Y.

H. J. HOERNER & CO., Lister Ave., Newark, N. J.

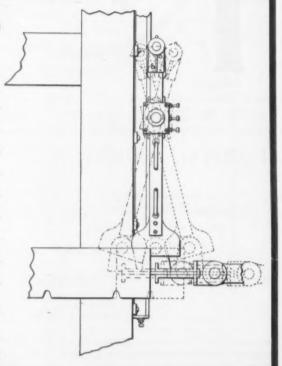
JOHN R. SMITH'S SON, 103 St. and E. R., N. Y. City.

JAMES MUIR, Bay St. Ave., Springfield, Mass. KIRKPATRICK BROS.,

23rd St. and Washington Ave. Philadelphia, Pa.

BUCK & GALLAGHER, Ninth and Wolf St., Phila., Pa. SOUTH SIDE STONE CO.,

Bloomington, Ind.



## STONE WORKING MACHINE COMPAN

The Stone Working Machine Co., No. 43 Wall St.,

New York City. Gentlemen—In reply to yours of recent date, would say that we had such confidence in the Thomson Attachment for stone saws that we put in the first two manufactured,

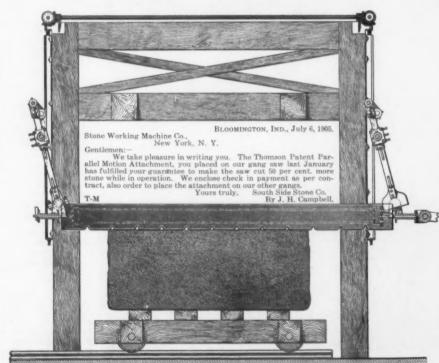
and, pleased to say, that our judgment has been more than ustified. We are confident there is nothing on the market equal to them. In over two years use the cost of repairs has been practically nothing. and they continue to give every satisfaction. You can use this letter if it helps you in your sales. Yours truly,

CARR & BALL 111-121 Passaic Ave., Harrison, N. J.

Manhattan New York City, October 6, 1903. Stone Working Machine Co.,

41 Wall St., City. Gentlemen-In reply to your defilemen—in reply to your letter of even date, we would say that we have now been using two of your attachments on our saws for several months and we consider them a de-cided improvement.

Yours truly, B. A. & G. N. WILLIAMS, B. A. Williams, Pros



Harrison, N. J.,
October 15, 1903.
Stone Working Machine Co.,
New York City.
Gentlemen — Replying te
vours of 9th Instant, would
say that we have had two of
your parallel saw attachments
working for the past five
months, and are satisfied with
the results obtained. We concider it a great improvement
in stone sawing.
Yours very truly,
J. J. Spurr, Pres.
October 27, 1903.
Stone Working Machine Co.,
Nos. 41 and 43 Wall St.,
New York City.
Gentlemen—Yours of the
26th instant received. In reply would say saw is working
satisfactorily and doing all you
other gang-saw as soon as possible.
Enclosed find check as per

claim for it. Please alter our other gang-saw as soon as possible.

Enclosed find check as per agreement. Yours truly, BARR, THAW & FRASER CO. 13th and Adams Streets, Hoboken, N. J.

Kirkpatrick Bros.
23d St. and Washington Ave. Philadelphia, February 2, 1905. Stone Working Machine Co., 41 and 43 Wail Street. New York City. Gentlemen—Yours of 1st inst. received. In answer would state that we have had a complete new saw of yours would state that we have had a complete new saw of yours use for two months. It has been working very satisfactorily. We can saw more that wice what we could with thormer gang saws, and require but little more power.

Vonrs truly

KIRKPATRICK BROS.

KIRKPATRICK BROS.

Tho. b.

Hoist o

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W. F. RANNEY, Mfr., 43 Wall and Exchange Pl., N. Y. City

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Six Sullivan Class "Y" Channelers quarry ing colitic limestone at Bedford, Indiana

Sullivan Channelers are simpler, cost less to opcrate and cut faster than any other machine, in marble, slate, building stone or soapstone.

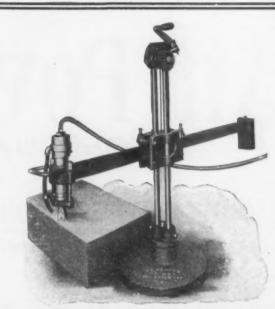
CATALOUGE 51.

Rock Drills, Plug Drills, Air Compressors

## SULLIVAN MACHINERY CO.

Chicago New York Claremont, N. H. Pittsburg Knoxville

Denver El Pase



## The "Kotten" Junior Surfacer.

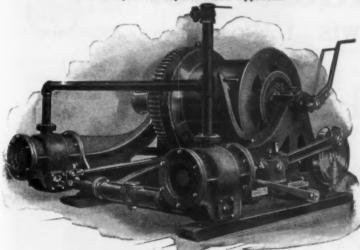
We will be glad to give you further information and prices. Machines sent on trial. Crane, Junior and Baby Surfacers, Baby Drillers and Plug Drillers, Valve and Valveless Carving Tools. Complete Pneumatic Equipments.

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## The Quincy Mine and Quarry Hoist.

No Question About its Merit or Efficiency. You Decide Those Points Yourselves. Sent Subject to Inspection and Approval.



BUILT BY QUINCY ENGINE WORKS, QUINCY, ILL.

 Cylinders 8x10, Drum 14x20.
 \$496.00

 Cylinders 8x10, Drum 24x24.
 505.00

 Cylinders 8x10, Drum 30x30.
 525.00

These prices are cash without discount, but cover the complete machine f. o. b. Quincy, Ill., or Chicago. You have your choice of the Reversible Hoist or Friction Drum Hoist. We have both for prompt shipment. For Quarry work or for Mine duty you can't beat 'em. Strong, quick, simple. modera. Shall I ship you one?

## WILLIS SHAW,

MACHINERY.

CHICAGO, ILL.

MIXER vs.

MIXTURE



We make the mixer—
You make the mixture—
Without a good mixer—
You can't get a good mixture.

Our American mixer is good—all that the name implies—new, modern, up-to-date, honest, to be depended upon, and a "Mixer"; just like any genuine American citizen. Compare it from any standpoint with the other kind and the result is like comparing the Yankee with the Russian.

## A REAL AMERICAN

It feeds while running, discharges instantly, is selfcleaning, does not "ball" or "roll" and MIXES. Send for catalogue "I".

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The International F. and Fireproofing Co.

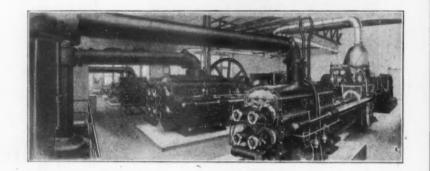
Columbus, Ohio.

Tell 'em you saw it in ROCK PRODUCTS.

# Air Power Plants

FOR QUARRY SERVICE

The illustration shows the power plant of the Cleveland Stone Co., at North Amherst, Ohio, comprising two Ingersoll-Rand Corliss air compressors. The properties supplied with power from this plant are the "Gray Canyon" Quarry (the largest sandstone quarry in the world), The Mussey and the Malone quarries. The substitution of air power for steam in these quarries has brought about a saving of \$68,160.00 per year over former costs. The system is described in pamphlet 346, "The Central Air Plant."



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## Allis-Chalmers Co.

MILWAUKEE, WIS., U. S. A.



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## Gates Rock and Ore Breakers



Style "K" Breake

embody all that advanced engineering skill, wide experience, and unsurpassed manufacturing facilities represent in breaker construction.

## Its Record

is a continuous demonstration of its superiority over all other machines used for like purposes.

## Unequalled

for producing crushed stone suitable for Railway Ballast, Street Macadam, Concrete, or for the reduction of Cement Clinker, Slag, Phosphate Rock, etc.



Style "D" Breaker

**Bullock Electrical Apparatus** 

NILES ELECTRIC TRAVELING

# CRANES

## HOISTS

FOR

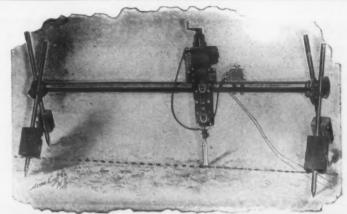
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Send for Catalogue of "Outdoor Cranes"

## NILES-BEMENT-POND CO..

111 Broadway, NEW YORK

Philadelphia, Boston, Chicago, Pittsburg, St. Louis, London.



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## THE BEST QUARRY DRILL ON THE MARKET

These drills will broach a cleaner and deeper channel than is possible with any make of air or steam drill. Our Model No. 6 Drill has a cutting capacity equivalent to a 3 in. Air Drill; it requires only 2 horsepower to operate, however, against 15 to 20 horsepower required by the air drill. No Springs. No Flexible Shaft.

Send for Catalogue No. BE-10.



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MANUFACTURERS OF

Electric Rock Drills and Generators.

Alstons Parallel Stone **Cutting Attachments** and Punches.



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WM. J OLIVER MFG. CO., KNOXYILLE, TENNES



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## THE DAVENPORT LOCOMOTIVE WILL SAVE MONEY.

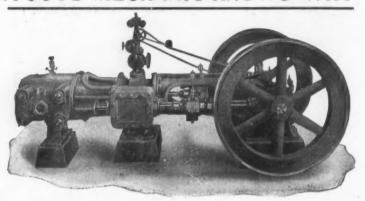
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Last longer and run smoother than others. Also why the removal of the bearings from the neighborhood of the steam cylinders improves their running qualities.

Air Compressors-Steam driven, Belt driven and direct connection. Electric Motors for every conceivable service.

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Catalogue of Valuable Information Free.

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Fills Your Gas or Gaseline Engines without the Aid of Batteries.

It is better and more durable than any Dynamo. Its governor regulates the speed regardless of speed of fly wheel. Its governor adjusts to imperfect fly wheels. Its governor insures a constant and uniform spark. The spark does not burn the contacts of the engine. All strains are removed from the bearings of Magneto.

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Steel Plate Work.



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The Most Desirable Rope made for Quarry and Contract Work. & &

It is not the color of the Strand that makes Monarch Rope so superior, but the material it is made out of. The Whyte strand merely ensures your getting the right rope.

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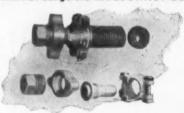
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## PULSOMETER STEAM PUMP CO

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you require an apparatus that is simplicity itself—one that will handle any kind of gritty, muddy water without suffering the slightest injury; in short a

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No engine, belt, oil, packing or special foundation required, just a steam pipe from boiler, that's all. Operates equally well suspended from a beam, derrick or tripod and may be readily raised, lowered or transported from vicinity of blasting operations.

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ARE MOST SENSITIVE, they require less current.

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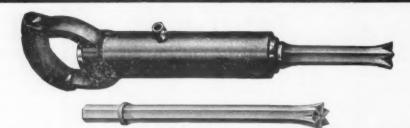
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STAR ELECTRIC FUSE WORKS,

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Tell 'em you caw it in ROCK PRODUCTS.

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Entered as second-class matter December 16, 1905, at the Post Office at Louisville, Ky., under Act of Congress of March 3, 1879. THE FRANCIS PUBLISHING COMPANY,

#### Publishers.

E. H. DEFEBAUGH

Presider

A semi-monthly trade journal devoted to the interests of the manufacturers and dealers in rock products and kindred lines, including Lime, Cement, Salt, Sand, Slate, Granite, Marble, Sandstone, Grindstones, Artificial Stone, Emery Stone, Quarries, Monuments, Manganese, Asphalt, Phosphates, Plaster, Terra Cotta, Rooding and Roofing Tile, Coal, Oil, Mineral Wool, Brick, etc.

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### E. H. DEFEBAUGH. FRED K. IRVINE.

ASSOCIATE EDITORS.

HENRY C. WHITAKER Barre, Vt.

ALEX, CRISTADORO. New York.

Regular Staff Correspondents in the Principal Centers.

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"TELL 'EM YOU SAW IT IN ROCK PRODUCTS."

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NEW YORK OFFICE-Room 502, 136 Liberty Street, CHICAGO OFFICE-Room 1312, Tribune Building. NEW ENGLAND OFFICE-16 Merchant St., Barre, Vt.

## LOUISVILLE, KY., APRIL 5, 1906.

## Up-to-Date System Needed.

As we start into the active operations of another year's business, let each fellow look carefully over his system of keeping the cost of operating his plant and so divide the expense to be charged to each job that it can be intelligently computed against the price to be finally received at the time of completion, so that the actual profits can be known.

We know that there still exists in some shops the ancient haphazard custom of working along every day, paying out money whenever bills are presented, collecting whenever a job is completed, and counting the money in hand as a profit from day to day. This antiquated idea is not applicable to business operations of the present time, when a larger number of hands are employed an l more or less machinery driven by power used, entailing complicated calculation to enter into the computation and very large sums of money are often involved in the stone working business. A strict cost sheet of every part of every job should faithfully follow the work in all its details so that bids can be more intelligently made upon future work and a reasonable profit provided for in the figures that are offered in the proposal. This may not be applicable to the man who already has a well developed system of this kind in his business, but even in this case there is nearly always room for improvement and there is no doubt a large number that this shoe will fit to perfection.

The lack of this element in the stone working industries is more apparent than in almost any other line of human effort in this advanced age of enlightened business methods, and no doubt is the most potent factor in producing the condition that is so well known and so widely quoted everywhere, towit, "Few large fortunes have ever been made out of the stone business."

### Work for Monument Associations.

The retail monument man in every part of the country is now busy with the annual rush of orders that has to be completed by Decoration Day. This, in the past generation, has come to be considered the great event of the monument business each year, and in looking over the field, it is easy to see that the monument trade as a whole has been benefited by the establishment of a definite time when a large number of memorials shall be completed.

The fixing of a positive date is always important in any business transaction and many monument dealers now testify that the best end of their season is that immediately preceding Memorial Day. If another such similar date could be established in the fall of the year, it would undoubtedly concentrate thought and effort to the end that a large number of monuments would be ordered with reference to such an established date and eventually create another active season in the business.

It would not be necessary to have the day a national holiday, but if some fixed date in the autumn could be established and made popular for the purpose of paying special respect to the departed loved ones another milestone of progress would be passed by the monumental business. This is really a thought worthy the consideration of the monument associations, for no little business would grow up and concentrate around such a date, making two prosperous seasons in each year. If the monumental associations can take this crude thought, develop it, and make something of permanent benefit to the trade, they will accomplish no little good, and it strikes us that the wideawake men who compose such associations are the leaders of thought in the business, and are well prepared to work out the suggestion.

## Quarrying Machinery.

The first writings of man that have come down to us from antiquity contain accounts of quarry operations, and through all the ages there has never been a time that the quarry industry has not been a distinct vocation of a part of the human family at least. Most of the quarrying that is done in the present day is conducted in much the same manner and with practically the same kind of tools that were in use at the time that Joseph invited his father, the third of the great patriarchs of the Hebrew race, to go down into Egypt, wich is so long ago that most of our readers have forgotten the date. This is said with all due respect to quite a sprinkling of American quarries as well as to the inventors and builders of machines that have revolutionized the business to quite an extent in some localities. Still, of all the quarrying operations on this planet, there are probably less than 2 per cent of them that have any kind of machinery at all, other than the early tools referred to above.

There are still people engaged in quarrying who have not the remotest idea how much cheaper their stone could be removed from the bosom of the earth and placed upon a remarkable basis by the use of modern machinery.

## Roofing Slate Growing in Popularity.

The disappearance of timber and the consequent advance in the price of shingles is felt by the slate producers and has had the effect of making a large volume of profitable business for them. In many localities where the shingle was the supreme or ideal roofing material in times past, slate has made its appearance and won a foothold. The reports that come from the slate producing districts, as well as from the dealers who handle it in large quantities indicate that there is an ever increasing number of builders who appreciate the intrinsic value of this kind of roofing materials.

The improved methods of working the slate quarry as well as the improved facilities of transportation have so cheapened slate in recent years that the advanced price of shingles has almost met it on an equal level. When the question of quality is taken into consideration, slate wins out every time, because, it never rots or deteriorates, fades or burns, requires no painting or repairs, but is permanently a crown of beauty to every building that uses it and a joy forever.

### Do You Get Left?

Few men in the stone industry ever figure into their calculation, a salary for themselves as a basic arrangement, "So much for the machines, so much for the rent, so much for the foreman, so much for the stone cutters, so much for contingent expenses," is the way it usually goes and the proprieter is supposed to get all that is left and the trouble is that in some cases he gets left out indeed, and there are very few cases where there is any more left for him than a mere foreman's salary, without even counting interest on his investment or remuneration, for the risk that is incident to every large business undertaking.

## The Single Virtue.

Every properly conducted monument manufacturing concern in the great quarry centers of the country are having a good rush season. The cutting sheds are busy, most of them even working overtime, and the railroads are enjoying a remune: ative traffic in hauling the finished work. All this indicates that a prosperous season is with us and that there is work enough for every hand and every tool in the shop, and is the best argument why no unprofitable work should be undertaken and no customer furnished with stock who has not a past record of fair dealing in the trade, for if ever there was a trade where a single virtue should govern, it is the monumental trade, and the name of it is, integrity.

Every quarry in the Indiana Oolitic district are ready to begin active operations. Indeed, quite a few have already begun to get out stone in spite of the fact that old Josh Bell used to say, "Not till after the tenth of Aprile air we perfec'ly safe from Jack Frost," but Jack has evidently gone into summer quarters in the regions which immediately surround the pole and the building stone quarry can now be considered a safe proposition.

The dealer in mason's supplies is not overlook any bets in these days. Every issue of Rock Products this year has contained the report of a meeting of some earnest body of men in this business, who are working together by the association route for a square deal to all and a living profit in every line. The report in this number comes from the splendid meeting of the New Jersey association, held at Newark, this past month, and long may she wave as one of the banner associations.

## Trom Our Own Correspondents.

### GREATER NEW YORK.

GREATER NEW YORK, N. Y., April 3.—Charles A. Tufts, a Detroit capitalist, and Thos. H. Wheeler, a director in the Standard Oil Co., have purchased the old Packer property in Grace Court, on Brooklyn Heights, for \$150,000.00, and will erect a sixteen story apartment house for 300 families. It is to be the most imposing building of the kind in Brooklyn and will cost over \$1,000.000.00.

#### New York Telephone Company's New Building.

Plans have been filed with the building department for a new six-story fire-proof telephone exchange and office building to be erected at the N. E. corner of Wooster and Houston streets, for the N. Y. Telephone Co. It will be 100 ft. front and 99.10 ft. deep, with a facade of brick, trimmed with terra cotta, and one course of granite at the base. It is to cost \$355,400.00 as estimated by the architects, Eidlitz and McKenzie.

#### New Building for the Broadway Savings Institution.

Plans have been filed for new buildings at 5 and 7 Park Place to be built by the Broadway Savings Institution. It is to be 37.6 ft. front, 75 ft. deep and 46.6 ft. high, with a facade of either limestone or granite in classic design, lighten by a great central arched bay. The interior will contain a mezzanine story and have an arched dome and many decorative panels of marble set in carved oak. The architects are York and Sawyer.

### New Yorkers to Build Big Hotel in Havana

A number of New Yorkers, among whom are J. M. Ceballos, of J. M. Ceballos & Co.; Daniel Bacon, president of the West India Steamship Co., Charles Scribner, of Charles Scribner's Sons, are interested in the building of a hotel in Havana, at an expense of \$1,500,000.00. A site has already been secured and construction work will be commenced within 60 days. It will occupy half a block in the heart of Havana. The Havana Hotel Co., as it is called, has been organized under the laws of Maine.

## Death of a Prominent Contractor.

There died this month, Cornelius J. Ryan, who had been associated with John B. McDonald—the builder of the subway. In 1873 he, with McDonald, built the fourth avenue tunnel for the N. Y. Central R. R. The greatest of his works was the building of the B. & O. tunnel under Baltimore.

## Bridge Estimates Too Costiy.

The Board of Estimates, this month, appropriated \$5,000.00 for new dock work, and committed themselves to a further appropriation of \$10,000.00.00.00.00. The Board also apportioned \$3,000,000.00 for annual paving expenditure, \$1,000,000.00 to Manhattan, the same to Brooklyn, \$350,000.00 each to the Bronx and Queens. and \$300,000.00 to Richmond. The prospected Henry Hudson Memorial Bridge at Spuyten Duyvil which was put down originally at \$1,000,000.00, will cost the city \$5,000,000.00. When the Board authorized the bridge it did not contemplate any such expenditure, and the authorization may now be revoked.

## The Tower Idea is Growing.

Some time ago the sky-scraper evolution reached a halting place when it was demonstrated how completely a later sky-scraper running up alongside one already built would destroy both the market and renting value of the latter, by shutting off light and air from its score of windows. Then some big buildings were forced to the very expensive expedient of buying a lot alongside and erecting a three-story "tax-payer", thus preserving the outlook and ventilation for the twenty stories or more above. This was a costly procedure because the price of the land was based on its availability to contain another sky-scraper and the purchasers had to pay accordingly. Now the big syndicate buys a whole lot, or a big part of one, and erects a building with an

immense tower. The rooms in it will command a good rent, as the rooms will always have an abundance of air and light. The Metropolitan Life is to finish off its Madison Ave. and Twenty-tbird street building with a 500 ft. tower, and the new Singer Building is to have one rising to a height of forty stories. There is much to commend in the tower idea, and an increase of it may be looked for.

### Shipping Lots of Machinery.

Mr. Chas. A. Grice, of the Anderson & Co., Ltd., of 420 Ogden St., Newark, N. J., reports business as very satisfactory. They have just shipped one of their large double diamond saws to George H. Flynn & Co., of Philadelphia, Pa., and three other large saws to a New York City plant. This company has an international reputation and are receiving orders from every section of the world. They are now building an interior marble saw and a planing machine to ship to Lower Burman, India, which is the second order in a short time from that country. They have also made a very good start in the South and are sending a complete equipment to Theodore L. Bielharz, a contractor at Dallas, Texas. A peculiar kind of limestone has been found down there not unlike marble and this plant is being erected to work it and put it on the market. The Anderson Co., Ltd., not only make Diamond Circular Saws and Stone Working Machinery, but also build and equip stone plants complete. Reports from their customers point to a good business all over the country. One big quarry had been holding back an order for six saws during the winter but are now writing daily and sending "rush" telegrams, urging the greatest possible speed in getting them out.

#### Have Taken Another Floor.

Mr. Leland, of Leland & Hall, 557 Fifth Ave., statuary and monumental work, reports their business as very active; while there are no particularly large contracts being given out just now, yet there is a large amount of interior work going on and a great many monuments being built in and around New York, of which they are getting their share. Mr. Leland is of the opinion that a great deal more high class work will be done this year than last and for that reason they are enlarging their office, and have taken the entire fourth floor, directly overhead, for the draughting room and working force, leaving the third floor for their general office, private offices and show rooms. This firm are also agents for Myers German Cement, for repairing stone of every description, and are pleased to state that orders are increasing for that commodity.

## Two Big Compressors for Copper Mining.

The Laidlaw-Dunn Gordon Co., 114 Liberty St., report sales during the last month of air compressors, the largest in the history of the company. They include two compressors for the Centennial Copper Mining Co., of Hancock, Michigan, each 25 and 54x50 and 32x60, cross compound, two stage, with Corliss steam valve. Each compressor has a capacity of 100 lbs. per sq. inch and are two of the largest high-pressure compressors ever built.

## Making Good in New England.

Capt. W. F. Ranney, of The Stone Working Machine Co., 43 Exchange Place, is taking a trip through the New England States.

## A Twenty-Five Story Building for Wall Street.

Plans have been filed for the new twenty-five story office building to be erected at 37 to 43 Wall street, for the Land Purchase Co., of which Cakleigh Thorne is president, and which is controlled by the Trust Company of America. The building is to be 318 ft. high, with a frontage of 61.08 and a depth of 130 ft. It will have a facade of the Italian Remaissance type, of granite at the basement story, and ornamental limestone above. There will be a porch entrance decorated with columns and a number of ornamental bays at several floors. It is to cost \$1,000,000.00.

## May Move at Last.

For many years the site of the Staats-Zeitung has been threatened, but it looks now as if it would be acquired by the city for bridge terminal purposes. Herman Ridder has bought a new site occupying nearly the entire block on the west side of Elm street (now Lafayette) between Duane and Pearl streets, fronting 160 ft. on Elm street, 60 on Duane, with a rear line of 140 ft. Construction will be begun as soon as the city definitely makes known its plans to take the present site.

#### An Expensive Apartment House.

New York will soon have another splendid apartment house. The building, which will be twelve stories high, will occupy the block bounded by Broadway, West End Avenue, Seventy-eighth and Seventy-ninth streets. It will cost \$2,000,000,00, and with the value of the land will represent an outlay of \$3,000.000.00. Clinton & Russell are the architects. It will be known as the Apthorpe Apartments and will have a frontage of 204.4 ft. on Broadway and West End Avenue and 248 ft. on the two streets. The architecture will be of the Italian Renaissance and will be executed in limestone and stone-colored brick. In the interior will be a court 96x134 ft. in size, the center of which will be parked and planted with grass and flowers.

#### Now They Are Striking.

Mr. W. A. Kirtland, of 1123 Broadway, who represents the slate quarries of the Bangor region, Pa., is now deprived of considerable business on account of the strikes at the various quarries, everything being now shut down, there. The strikers are not looking for an increase in wages, but for nine hours instead of ten and recognition of their union. This the operators refuse to consider and Mr. Kirtland would not be surprised if the quarries remained idle all summer. If this condition should prevail, it would help the marble business in all interior work where slate is specified as cheap marble would be used, provided they cannot get the slate. Here is where the ancient adage applies; "It is an ill wind that blows nobody good."

#### May Spoil a Good Season's Business.

Mr. A. Wells, Townsend Building, N. Y., representative of several large slate quarries in Pennsylvania, reports that the prospects for a busy season were very good until the quarry strike came along. There is no change in the strike situation so far; the operators remain firm and the men are still out. Mr. Wells thinks that if we have a coal strike now it will make matters even worse, and he deplores the fact that when the prospects were brightest for the slate industry ond everyone, from the producer to the laborer, connected with that business, had an opportunity to enjoy a little prosperity, it is all marred by the differences between operators and employees.

## Ready When it Comes, No Matter How Big.

At the office of the N. Y. Cut Stone Co., 5 and 7 East Forty-second street, Mr. Parker, the president of the company, says that being between seasons now, there is very little activity in the cut stone market, but that if the fine weather continues, spring business is apt to start up with a whoop, and they are prepared to go right out and meet it. It is to be hoped that the condition of business will be realized shortly as Mr. Parker, like his fellow craftsmen, is ready to get in harness. The present indications are that before the next issue of this paper, cut stone dealers will have all they can attend to.

## Overhauling the Yard and Machinery.

At the stone works of Durie & Davidson, Harrison, N. J., Mr. Davidson reported business as fair for this season of the year. They are overhauling their machinery and putting their yard in shape for the spring opening. They are putting in another large gang saw and providing for more room and the outlook promises a successful season for them.

## Filling in all Right With Small Work.

Booth Bros. and Hurricane Isle Granite Co., of 207 Broadway, say there is a great deal of monumental and other small work being done this spring, but not much big work either public or private, where any considerable amount of stone is to be used, but the run of small and odd jobs coming in from time to time have kept them moderately busy and they have had no right to complain.

## Snow First, and Now a Strike.

Mr. F. S. Dickinson, of the Bedford Quarries Co., Fuller Building, says that business as far as orders go is very good, but that the recent bad weather in the quarry region has prevented them from getting stone moving as early as they expected, and now with that condition removed they are threatened with a strike among the stone planers that may spread to the cutters and delay shipments indefinitely. Mr. Dickinson has just returned from a trip to Washington and reports business very good at the capital and throughout that section of the country.

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#### Must Have More Elbow Room.

Mr. Michael Cohen, Eastern Agent for Indiana imestone, 1133 Broadway, reports his business every satisfactory. He has just ordered thirty seven carloads of stone, which represents one order, and has another order pending, which he expects to close shortly. The new French stone, for which he is the American agent, also promises o take well in this market. Mr. Cohen's chief complaint now is more office room, with business increasing each month, he finds his office getting maller and is in a quandary to know just what

#### Drills to California and British Columbia.

The Wood Drill Works, of Paterson, N. J., have just completed a large order of their well known Drills for shipment to one of the largmines in California, and another large for the total equipment of one of British Columalmost doubled its size in the past few years, and Mr. Wood states that if business continues as brisk the next few months at the rate it has the past two months, he will be required to advertise to find out just where he is "at", as they are unable at the present to supply the demand.

A New Kotten Driller. Mr. H. G. Kotten, of 120 Liberty Street, reports a large sale of their new type Z drillers, and also says that business is picking up all along the line.

### THE NORTHWEST.

Minneapolis, Minn., March 31.—The building season is developing pretty well, along most lines. A number of good-sized contracts have been placed, as will be noted in the building report, and smaller structures are developing fairly, although not in great numbers as yet.

Cut stone men complain that terra cotta work is cutting in on them so they do not have the pleasant outlook of a year ago. Cut granite has done fairly well, but other cut stones are not so popular this year. The new main building at the iob of cut granite, the Western Granite Co., of St. Cloud, having a \$35,000.00 job there. This same company has a good-sized contrat for granite for the new First National Bank building in Minneapolis.

Revised plans have been drawn for the new sholesale warehouse for the J. I. Case Threshing wholesale warehouse for the J. I. Case Threshing Machine Co., to be erected at Washington and Seventh avenues South, by the architects, Kees & Colburn, of this city. The plans are to cover a building of seven stories although it is to be built but four stories at first. It will be of brick above the fir t floor which will be of dres ed granite. Vitrified paving brick will be used. The estimated cost of the building is about \$100,000.05.

W. D. Lawrence will erect a sanitarium at Eighteenth street and Elliott avenue, on plans W. S. Hunt, architect. It is to be of pressed brick and cut stone, 40 x 90 feet in size, three stories and basement. Ccst \$20,000.00.

The contract for the McQuaid store and hotel building, at Seventh and Hennepin avenue, has been reawarded to the H. N. Leighton Co. This work was let to the late T. P. Healy, just the day efore he died, of heart failure. Cost \$100,000.00 L. Dorr. architect.

A. L. Dorr, architect.

The Chicago, Mi'waukee & St. Paul Railroad
Co. contemplates additions and enlargements of
its shops in South Minneapolis within the next
two years, to about double the present capacity.
This is in preparation for the extension of the
road through South Dakota into Montana and on
to the Pacific Coast.

The Hurty-Simmons Hardware Co., a branch of the Simmons Hardware Co., of St. Louis, is hav-ing plans prepared by a New York City firm of architects, Gordon, Tracy & Swartout, for a whole a'e warehouse, to be erected this spring at Ser-nd avenue North and Fourth street. Plans will

out about the middle of April. The Minneapolis and St. Paul Suburban Railay Co. has changed its intentions regarding the onstruction of an amusement pavilion at Big Is and, Lake Minnetonka, and has settled with the rehitects, who won prizes in the late competition, ustead of the building proposed, the company defer construction until next season, when will erect a much more elaborate and costly

Bell & Detweiler, architects, have plans for a ounty fail and sheriff's residence, to be erected to Deadwood, S. D., two stories and basement, prick and stone, costing \$10,000.00.

The L. F. Brayton Co. received the contract for a large addition to the Realty Co.'s bonded warehouse at First avenue North and First street. It will be of red pressed brick and cut stone, costing \$30,000.00.

Hennepin Avenue Methodist congregation, Tenth and Hennepin, is considering the construction of an elaborate church to cost complete, \$250,000.00.

The Lake Street Methodist congregation contemplates the erection of a modern new of pressed brick and cut stone, to cost about \$35.

000.00. A. G. Wass, architect.

Pike & Cook have the general contracts for the erection of a power house, paint shop, store-house and additions to present buildings at the shops of the Soo Line, in Northeast Minneapolis. This company is building a vast amount of new road in various directions, and will require considerable additional facilities. The work by this contract will cost about \$150,000.00. Wm. M. Ken

contract will cost about \$150,000.00. Wm. M. Kenyon is the architect.

J. and W. A. Elliott, of this city, were the successful bidders for the erection of the new main
building at the state university, at their bid of
\$286,950.00. Granite will be used for the first nine
feet and Twin City pressed brick above that, tercette, trimprices believe to the first proposed. ra cotta trimmings, hollow terra cotta fireproofing, etc. Clarence H. Johnson, architect, St. Paul.

#### Saintly City Building.

The Molay flat building for Grand avenue and Dale street, will be erected on plans by Louis Lockwood, architect. It is to be 43 x 96 feet in size, three stories and basement, of pre ornamental brick and Bedford stone. C plete. \$30,000 00.

state board of control will have erected an addition to the state penitentiary at Stillwater. Clarence H. Johnson, the state architect, will prepare plans for a factory building to accommodate the twine plant. It will be two stories, 86 x 200 feet in size, of brick and stone. There will also

be a warehouse building, 86 x 150 feet, one story.

D. A. Omeyer, architect, recently completed plans for a public library building for Arcadia, Wis. It will be 36 x 45 feet in size, of pressed brick and cut stone.

Newman & Hoy were the successful bidders for the construction of the main building at the state sgricultural college at St. Anthony Park, between St. Paul and Minneapolis. Their bid was \$198,083using Twin City pressed brick and buff Bedford cut stone.

The First National Bank will erect a building at Fourth and Minnesota streets, on plans by Louis Lockwood, architect. It will be 90 x 100 feet in size, two stories high, possibly of white

marble exterior on granite base.

The West Side Power, Light and Heat Co. will erect fireproof buildings to house its steam power to be erected this season, at a cost of \$100,00.00. Claussen, Burch & Pillsbury are the engineers.

Thori, Alban & Fisher, architects, have plans out for a public school building for Milbank, S. D. It will be two stories and basement, 76 x 116, of pressed brick and cut stone. Cost \$30,000.00. The Minnesota Macaroni Co. will erect a new

building on Fairfield avenue and Hyde street, three stories and basement, 112 x 120, brick

dd cut stone. Cost \$30,000.00.
The Chicago Great Western Railway Co. has nad plans prepared by Reed & Stem, architects, of this city, for a new freight house to be erected in Chicago, at a cost of \$225,000.00. It will be x 414, four stories, fireproof.

Buechner & Orth, architects, have completed plans for a handsome residence for A. J. Schweitzer, to be erected on Carroll and Dale streets. will be 57 x 41 feet in size, two and one-half stories, of pressed brick and cut stone. Cost \$10,-000.00

## Newsy Notes.

The value of the Southern Minnesota stone, called Mankato or Kasota stone, is being recognized. Edgar Weaver, of Mankato, a member of the state board of capitol commissioners, recently received information from a large stone importing firm with quarries in Ireland and Greece, that it would hereafter hand e the Mankato stone. The value of this stone was brought to public attention first by the use in interior decorations in the state capitol building in St. Paul. It will take a high polish similar to granite.

What is declared to be pure marble underlies the sandstone at Kasota, Minn., and arrangements are being made to work it. The existence of this stone has been known for a long time, but the difficulty of working it has held back steps in this direction, for between the sandstone which is

worked and the marble is a vein of stone which is very hard to work through. Both companies at Kasota will install machinery for cutting and polishing this marble which is said to resemble ennessee marble.

The recent failure of the Widell-Finley Co., of Mankato, Minn., has resulted in an expression of faith in Gen. Gus Widell, which is very gratify-The people of Mankato have sub loan of \$15,000.00, in sums of \$100.00 to \$500.00, and Gen. Widell and others will form a company to lease the old quarries and continue to do a stone quarrying and railroad bridge work business. The loan is to be paid back as rapidly as possible. A company has been formed under these arrangements, with Gen. Widell at the head of it The quarries at Sandstone, Minn. had an in-

crease in shipments during February of this year, amounting to 229 cars, over the same month of a

year ago.

The crushing plant of the Blue Limestone Co., in Minneapolis, was badly damaged by fire recently, with a loss of about \$10,000.00. The company will proceed with rebuilding it at once.

### CHICAGO, ILL.

CHICAGO, ILL., April 2 .- The severity of the weather has handicapped many enterprises along building lines. But notwithstanding the disagreeable weather there seems to have been but small abatement in the call for building supplies and structural material of all kinds. New projects are reported which will increase the already requirements.

The demand for all kinds of raw materials command high prices, the demand in many instances exceeding the supply. Building materials are high and for brick, the makers thereof seem to be getting their own figures, still in a number of respects dealers seem to have reached a period just now when they are not unlike the farmer

-between hay and grass.

The severe cold and unusual fall of snow has delayed all work at the many quarries in close proximity to this city, and no efforts have been made thus far to resume work. Quarry men who many orders on hand hope to be able to resume operations early in April

The large number of new building operations now under way and contemplated to begin as soon as April opens is unprecedented. It is nounced to-day that Eugene Pike will proceed once to erect a sixteen story building at the north west corner of State and Monroe streets at a cost of \$400,000.00. The design of the builder, Mr. Pike said, will be to produce the finest structure of size in Chicago without regard to expense. building will front 461/2 feet on State street and have a front of 88 feet on Monroe street. It will be of polished granite, terra cotta and vitri-fied brick as to its exterior, and be finished in marble and mahogany. Another new project is a \$1,250,000.00 hotel to be erected at the corner of Jackson boulevard and Franklin streets. Contractors are busy at work figuring on these proposed large buildings.

A. F. Gibson, cut stone contractor, 3327 La-Salle street, has finished his contract for supplying Bedford stone to the new Borland sixteen story building, which is now approaching completion. He expects to be very busy a little later in the season. He has on hand a good supply of stone from the Bedford quarries. The outlook is good and unless a strike among the workmen occurs as contemplated there seems to be nothing in sight to interfere with the season's work

Henry Struble, the well-known secretary of the National Stone Contractors' Association said that at present the stone business was quiet. well-known They have, however, increased their force of workmen to about twenty-six so that his yard is far from being idle. Mr. Struble says that he has no large contracts on hand at the present time, but that there is a great deal of figuring going on among cut stone men, and that a little later on in the season his firm will probably increase their work when some new contracts are entered into in the near future.

The Western Stone Co., 320 California Ave., are fairly busy for this time of the year. The weather has interfered greatly with the delivery of building material. The firm is pleased with the outlook and expects business will start briskly

when the warm weather sets in.
The Chicago Cut Stone Co., 3403 LaSalle St., report business with them only moderately active. They have some contracts pending which they will close up in a short time. The marble men generally, when seen, report a fairly good business doing in marble. Some of them hold liberal contracts for finishing many of the large buildings now going up. Work has continued at most of the marble yards during the greater part of the winter, and the large stocks which had accumulated have been considerably reduced.

The Arnold Granite Co., 138 Washington Street, room 510, say business has been fairly good with them during the past winter and that increased cal's for granite for building and finishing purposes have been made during the past two months.

The Consolidated Granite Co., 21 Quincy Street, room 867, report that the granite business is constantly increasing in this city. Business at the present time is not pressing but prospects are good and they expect an active season later on.

### LOUISVILLE, KY.

Louisville, Ky., April 3.—Every indication now points to the most prosperous building season ever known in this city. The inclement weather during the past month deterred building operations somewhat, but with the advent of April things have taken a new activity. All the builders, contractors, architects and those engaged in similar occupations, including the supply men, have all they can possibly take care of. The number of large structures is growing each month and a large number of others are spoken of as more than possibilities.

Work on the new Lincoln Savings Bank, which is to be a fourteen story structure on the corner of Fourth and Market streets, has been temporarily delayed, owing to the fact that one building still standing on the site of the new structure, can not be removed as the parties occupying same have a three year lease. Different attempts have been made to compromise this affair, but have thus far failed. Just what the outcome will be is somewhat difficult to say just now. The L. & N. building, Ninth & Broadway streets, is progressing in a satisfactory way. Preparations are being made to begin the erection of the new Mary Anderson Theater at Fourth and Chestnuts streets, as are also a new structure at Fourth and Walnut and the Seelbach annex.

The cut stone contractors are happy and have all found it necessary to make elaborate improvements at their several plants owing to the

apid increase of orders.

The Peter & Melcher Steam Stone Works have been seriously delayed in erecting their new plant at Logan and Rupp streets, owing to the fact that it is simply impossible to get lumber. This, together with other delays, has thrown them back some weeks with their orders which have multiplied very rapidly. They expect to get relief very shortly, however, as they have promises that the lumber will be on in a day or so, and the plant will be rushed to completion. They have secured a number of nice orders for cut stone work, and Mr. Peter expressed himself as being amply pleased with the outlet. In the monumental line they have a large number of orders and look for a greater demand during the coming months.

John Diebold & Sons, who operate a large and well equipped stone plant at Sixteenth and Arbegust streets, have a number of large contracts on hand and are working full force right along, often working over time. Among recent improvements installed in this plant is an immense lathe, which is capable of turning out the largest size columns. Mr. Andrew Diebold, said that he believed that they would have the largest business in the history of their concern; that they now had on their books more orders than they had at this time a year ago, which had been an exceptionally goel year.

The Peter-Burghard Stone Co. have found it necessary on account of the large increase of their orders to add considerable new equipment and make other improvements, which will be of great value to them in fulfilling their numerous orders. These include a new traveling crane, diamond saw, motors, etc., beside the erection of a new boiler house. They have received a number of nice orders during the past month and are husy both in cut stone and monumental lines.

are busy both in cut stone and monumental lines. J. S. Clark Monument Co., have a number of nice jobs and have made some very gratifying sales during the past week. Mr. Clark remarked, "My business has improved so much during the present year that I am afraid I will be denied my fising trip. It seems to me my business improves each year and it now looks as though I will get

no vacation at all." Mr. Clark has every reason to believe that the monument business will be exceptionally fine, as every indication now points that way.

The Muldoon Monument Co., report through Mr. Knoble, that everything is lovely with them and they were highly gratified with the prospects for future business. The orders for monuments of various sizes continue to come in in a satisfactory way and they are consequently in the best of spirits.

Joseph H. Peter & Co. have removed to the r new plant at 925-927 East Broadway. Their display room is quite attractive and they have a number of nice monumental jobs on hand, which show off to an advantage there. Aside from this, orders are coming in such numbers that they are well pleased with their business prospects.

Joseph H. Gernert finds the spring outlook for the monument trade very gratifying, and has every reason to believe he will have all he can take care of all season. Indications were never better for this particular line of business and he is very busy at the present time.

### THE WEST COAST.

SAN FRANCISCO, CAL., April 2.—Bids have been opened by the State Capitol Commission at Sacramento, Cal., for the remodeling of the State Capitol building, for which the sum of \$352,000 00 was appropriated by the last legislature. After adopting a number of alternative propositions that reduced the cost, it was found that the aggregate of the bids was still \$40,000.00 more than the appropriation. The plans were then returned to the lowest bidders with instructions to ty to make modifications that would bring the total amount within the limits of the appropriation.

According to plans by Salfield. Kohlberg & Wilcox, the new \$100,000.00 Elk's Hall, which is to be erected at Stockton, Cal., will cover a lot 101 feet square. The building will be five stories high, of brick and terra cotta with a granite base. The two upper floors will be used by the Stockton Lodge of Elks and the lower portion for stores and offices. The monumental merble entrance will contain a statue of an elf on an entablature, supported by two highly polished marble columns and surmounted by a clock.

ble columns and surmounted by a clock. The interior finish of the new Hotel Alexandria in Los Angeles, Cal., is exceptionally fine among the elegant hostelries of Southern California, Marble is used very effectually in the magnificent lobb. The side walls are marble from floor to ceiling. The base is of an almost black, Egyptian marble. The side walls are of beautiful black-streaked Italian marble. In the greater part of the hall the marble veneer is three or four inches thick, and at the entrance it is a solid marble block of near y a foot thickness. The ceilings, cornices and all the rest of the interior finish are quite in keeping with the beautiful walls. The pillars are imitation Sienna marble.

F. C. Horn, engineer in the reclamation service, will go to Chicago in connection with the purchase of machinery, which it is necessary for the government to purchase for construction work on the upper bank of the Deer Flat, Idaho, reservoir. Engines, shovels, rails, cars, locomotives rollers, pumps, grading machines, sprinkling wayons and other appliances will be required. Bids will be invited which will be opened at Chicago

as soon as possible, Supervising Engineer Ross going to Chicago for the purpose

The State Mining Bureau, under the direction o' tate Mineralogist, Lewis E. Aubury, has issued an elaborate, illustrated report upon the structur al and industrial materials of California. The author classifies building stones as granite, incluigranite and svenite, volcanic, including etc., and sedimentary, such as sandstone, tone, etc. Marble is described as metamorsalt. ilmestone, quartzite as metamorphose ne, and slate as metamorphosed c'ay or sandstone, and slate as metamorphosed cay or shale. Nearly all of these classes of building and ornamental stones occur in this state. Granite is quarried in the counties of Sacramento, Placer, Nevada, Tuolumne, Tulare, Madera, Los Angeles, San Bernardino and San Diego, and is also found Sacramento, Limestone is qu in numerous other counties. ried in the countries of Amador, Calaveras, Colusa, Napa. Butte, El Dorado, Contra Costa, Placer, Shasta, Sonoma and a number of others. Marb'e is quarried in Amador, Riverside San Bernardiro Inyo and Tuolumne counties. There are sand stone quarries in operation in Colusa, Los Angeles are sand-Santa Barbara, Santa Clara, Ventura and Yolo counties, slate in El Derade, rubble and broken stone for road purposes, in a score or more of counties and volcanic tuffa in Calaveras, Napa. San Luis Obispo and Sonoma.

The sandstone production of the state in 1901 was \$567,000.00, of which Colusa County is credited with \$290,000.00. Many fine buildings have been constructed of Colusa sandstone, arong them being the Kohl building, the St. Francis H tel and the James L. Flood building, al in San Francis of The production of roofing slate in California is an industry of some importance, amounting in 1904 to \$50,000.00. This state produces the only roofing slate for the Pacific Coast market. Quarries are worked in Amador and El Dorado counties.

It appears that the granite quarries are the most important in the state, and that California, in 1902, stood sixth in the list of granite-produ ing states, New Jersey being the first, followed in the o der named, by Massachusetts, Pennsylvania, New York and Connecticut. The value of the its quarries in this state in 1904, used for building and monuments, was \$447,000.00 and besides this were produced rubble and paving blocks, mostly granite to the value of \$1,389,000.00. The volume describes separately the numerous granite quar ries in the state, nearly all of which are illustra ted. And it has also numerous pictures of the fine buildings constructed of granite. Rocklin ha granite producing quarry principal Sacramento Valley, but at Loomis and Pen-yn, in the same county of Placer, there are also large quarries. The first quarry at Rocklin was opened in 1863, and much stone from it was used on the Central Pacific Raliroad. From the same cua ry Sacramento. At Penryn, David Griffith, a quarryman from Wales; opened a quarry in 1864, which he and his descendants have worked to the present time. As many as 200 men have been employed at one time in the Penryn quarries. At Follom there is a well-known granite quarry operated with convict labor, of which the product is used principally in prison and other state construction

The production of marble in this state is not large, but there are numerous deposits which could be worked. Large quantities of marble a ebrought into this state from Vermont, Georgia, Tennessee and Italy. The report says that while California produces no bright colored marble, which could take the place of the red Tennesse, and the rei Vermont variegated marbles, for interior decoration, there is a sufficient supply of white, clouded and colored marbles and onyx marble to more than supply the home demand. It suppears that the reputation of California marble has suffered from poor judgment in quarrying and selecting some of the stone put upon the market, also in the use of excessive charges of powder for blasting. The marble production of the state in 1904 was valued at \$94,208.00, of which more than half was in San Bernardino County

Limestone is pretty widely distributed in this state, and much of it is burned for lime. At Sussun, Napa Junction and Colton it is used in the making of cement and will be so employed at other points as the cement industry is growing fast. The beet sugar factories in this state are large consumers of lime, and in the absence of this mineral the beet sugar industry could scarcely have been established. In 1904 there were 565,000 barrels of lime produced in this state, worth as many dollars. Lime is produced in twenty Counties. About seven miles east of Newcastle, on the east side of the American River, there is a famous cave in limes one rock, where a limestone quarry is worked.

The Montana Marble company, composed Charles E. Russel, R. Edward Vincent and A. Baldwin, will commence active operations spring developing the marble quarries owned by the company near Helena, Mont. The comran owns 560 acres of first class quarry land in which are found quantities of white, black, blue, gra-and yellow marble. A. J. Dunton, a marble ex of twen'y-five year's experience in Vermo quarr'es, ma'e an examination of the commany properties. In an official report Mr. Dunton state that the properties owned by the Montana Marbi-company are among the most valuable in any parof the United States. The vein of marble is said to be from 100 to 113 feet wide. The marble lie solid formation pracically unbroken of

The proposition of working the property habeen taken up by R. Minor, who has placed it with eastern parties. As soon as the weather opens the company will begin working with a diamentally and later install quarrying machinery.

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The Hercules sandstone quarry, two and onehalf miles west of Valley, Wash., on the Spokane Falls and Northern Railroad, is being developed by the owners, R. Franke and Gustave Fritzscho. Over half of their forty acre tract contains sandstone of a good quality. Some very handsoms specimens of blue sandstone have been worked up, and several carloads of stone will be taken out oon for architectural work in Spokane. The Washington Monumental and

company has purchased a site for possible expansion. The company has machinery in transit, valued at \$4,000.00, principally planing machinery for soft stone. An electrical moving crane will also be installed. New and substantial buildings will be erected to house the machinery.

#### THE CRESCENT CITY.

New Orleans, La., March 30.—A charac eristic of New Orleans' buildings, past and present, is their stability. Buildings that were erected a century ago are sound and in use, save where they have been out-grown by the business that was car ried on in them. Or if residences have given way to modern mansions or it may be to cottages that are more in keeping with the new fangled ideas of the present generation. The oldest house in the Mississippi val'ey was built in 1737, at least it was completed at that time as a memorial transom over its front portal tells. It was built by fre Ursuline nuns and used by them as a convent with they out grey it and built as leaser and before the property of the property of the property is and built as leaser and before the property of the prop until they out-grew it and built a larger and better one. Since then it has been used by the Catholic church for an official house of office of the diocese. This is only one of many for there were other houses in the hamlet of Orleans at that time, but this is the one of which official record been kept..

The new Security bank building will be seven so es in the Frenc'i Renaissance style. The first story will be of white sandstone. The floor of the main vestibule will be marble. The upper stories of buff face brick.

on

The new building for the Maison Blanche, on Canal and Dauphine Streets is to be a handsome fifteen story steel building built of white marble and terra cotta. Stone Brothers are the architects and bids will be received April 23 for its construc-

The Fairbanks building, Stone Brothers, architets, is of mill construction with a cement basement and walls of face brick.

ment and walls of face brick.

The Young Men's Hebrew Association Auditorium and club building, Stone brothers, architects, is to have a base of Bedford stone. The walls will be of iron spotted brick with cream enameled trimmings. The wainscoting and swimming porter to be of white marble. This too is to be a fire-proof building and will replace the one destroyed by the after proper building and will replace the one destroyed by the after proper building and will replace the one destroyed by the after proper building and will replace the one destroyed by the after proper building and will replace the one destroyed by the after proper building and will replace the one destroyed by the after proper building and will replace the one destroyed by the after a few properties are the prope stroyed by fire a few months ago.

The Queens-Nassau Land and Construction Co. of New York City, has been organized to engage in the real estate and contracting business. The rapital stock is \$10,000.00. The incorporators rapital stock is \$10,000.00. The incorporators are: Chas. O. Hun, Brooklyn; Fred A. Soloman, New York; A'exander Dumas, Flushing, L. 1.; Hu'h Kenned; Bayshore, L. I.; Robt. M. Stockwell, Yonkers, N. Y.

The Syloan Construction Co. of New York, N. Y., has been incorporated with a capital stock of \$10,000.00. Building and real estate will be enaged in by the company. Samuel Greenburg, Sadie Levy, Balbhazzar Diehl and Jacob Diehl are the incorporators.

The Post Realty Co. has been organized with capital stock of \$75,000.00, at New York, N. Y. company will do contracting and building. incorporators are: Ezekiel Fixman, la ence M. Lewi , New York; Ralph S. Voornees Arlington, N. J.

The Gary Construction Co., has been organized with a capital stock of \$50,000.00, at Portland, Me. The officers are: President and clerk, M. W. Buldwin; treasurer, J. J. Hevnan.

The Bay Ridge Development Co., of Brooklyn. N. Y., has been organized with a capital stock of \$30,000.00. Th company will do contracting, etc. Jos D. Blumb, William B. Hatfield, Arthur D. Constant and others are the incorporators. \$30,000.06.

The Milharking Contracting and Supply Co., Newark, N. J., has been organized with a capital stock of \$125,000.00. The company will engage in the real estate and contracting business. Henry C. Miller, East Orange, N. J.; George F. King and Thos. D. Miller, of Newark, N. J.; are the incorporators.

## Construction

### Solves the Paving Problem.

Regarding the problem of street and roai construction, of which much has been said and more att mpted, often with fruitless results, there has recently been discovered a new street paving system, by the distinguished Swedish civil engineer, Behmer, and which is regarded as of world wide importance. This pavement has been tested and found satisfactory on one of the important squares in Stockholm. The pavement is described as made of crushed stone of different small sizes, which are bound together by a process, which is the secret of the inventor, and is strictly kept from public knowledge. This binding material, it is said, leaves nothing to be de-

sired in regard to strength and toughness.

The mixing, it is claimed, can be done without difficulty in all temperatures, but the machine in which the mixing takes place is so constructed that in the coldest seasons of the year, the material can be warmed if it is so desire! The peruliarity of the hinding process is that the material can be sent to the material can be sent to the process is that the material can be sent to the sent to the material can be sent to the sent t cultarity of the binding process is that the ma-terial preserves under all circumstances, its won-

derful elasticity.

derful elasticity.

The new material can be laid down in large stretches, or in patches, on sidewalks, in shori, everywhere without reference to conditions of the ground. Not the least remarkable feature of this new method is that it does not, like most others, need a special foundation, and if the street is frozen when the laying is done, this makes no difference. The last fact has the significance that street paying by the new method. makes no difference. The last fact has the significance that street paving by the new method can be forward all the year round.

But it would not be right to overlook other

good qualities of the new pavement. It lessens no se and is free from dust, is not injured either by rain or washing; it can be swept with a brush machine without loosening particles; it remains level and hard, but is never slippery. Repairs can be made very easily with the Behmer special machine, without the necessity of chopping or training up the street in the least, and the process is in no way dependent upon the magnitude of the injury. he injury.
One peculiarity of the new paving system which

ought not to be disregarded is this, that its ingredients are the cheapest patural substances which exist everywhere and are to be had in unlimited quantities. As is known, this is not the case either with asphalt or stone blocks.

The inventor has received inquiries from many

Swedish cities, from Copenhagen, also from France; for example, from Nizza, where all possible methods have been tried in vain, to consolidate the light sand.

## Stone Roadways the Best.

The plea for better roads, which was given so much prominence some years ago by the for-mation of good roads leagues, has had a most beneficial effect. As a consequence of this pre-liminary work the roads in many sections of the country have been very materially improved. Bet-ter materia's have been sought out and found to

of lasting service.

Among the profitable materials crushed stone has gained for its advocates good and lasting returns. Where other substances have proven ex-pensive and of short service, limestone has always been found a superior road building ma erial. Its use is growing in every locality where it is possible to obtain it in sufficient quantities, and in no instance has it failed to give satisfaction.

The Michael J. Lalor Co. has been organized at New York City, with a capital of \$10,000.00. The company will construct buildings and bridges. The incorporators are Michael Lalor, R. P. Rittenbusch and E. F. Lalor.

Modern Building Construction.

New YORK, N. Y., March 29.—Below are some exacts from an article by Mr. Theodore Starrett, of the firm of Thompson-Starrett, contracting engineer in a New York paper concerning the skyscraper of the day. "With respect to the form—speaking of these great city buildings— it may be noted that they are beginning to assume a standard form. The good building, the one that does good work for its owners by making its tenants comfortable, and therefore glad to pay the rents, has a standardized story-height, and a standardized finestration, that is, window arrangement. The attempt to make the skyscraper picturesque with turrets, balconies and gables has been given up lately, and it is well, for the skyscraper, being a creature demandel by nature, should be true and not a deceptive imitation of some other kind of creature or construction. A pineapple plant should not grow in the shape of an apple tree, neither should the skyscraper be made to look like a palace,

"With respect to the methods of modern con-struction it can be said that these have entirely changed in the last twenty years. The use of elevators and steam for heating actually started the transformation, but practically all the features of building construction, asi aside plumbing, have come in since the introduction of the steel (or fron) skeleton. It is now a steel frame braced and gusseted to stand wind, pres-sure and even earthquakes.

"To my mind the most won erful thing about these buildings is the modern heating and ventilating apparatus, which does for the great creature just what the animal constitution does—maintains an even temperature regardless of the weather; and does more, for it will automatically increase or reduce its own heat to any point de

But the heating apparatus is only one of the many component parts, although it has grown to be a fearfully complicated affair, requiring the highest skill of the specialist to work out all its parts, from automatic stokers which draw the coal out of the bin and with no hand to guide, gradually feeds it to the flame, to the delicate thermostats on the walls of distant rooms where the occupant sets an indicator at the temperature he wants, and the creature does the rest.

"Air suction is now pipel to every office and rugs and carpets are cleaned, tables and desks are undusted (not dusted) and if you please, hat and coat is air-cleaned, all with the same suction noz-

"The processes by which the work on a building is done are vastly improved. If you go into a sky-scraper during construction and see the different appliances at work you probably will be amazed. The hum of machinery is heard all around you. You will see electric boring machines sinking the holes for plunger elevator cylinders; you will see the hoisting machines, now beginning to be run by electricity, shooting their loads up and down. Perhaps a boom derrick is up aloft bring ing material from the street on the outside of the building. In some quiet corner you will see the man who runs this boom abstractedly minding his own business, with each hand on a lever listening for his signal bell. He must look alive, too, for if he overruns a signal a derrick weighing tons will surely be pulled out by the roots and come crashing down.
"And then there are the laborers handling

this material, a steady processon taking stuff to the material elevators, loading from one side, unloading from the other. Up on top or scattered through the different parts of the building are mechanics building it all into place.

"These men are a part of an industria' army that does one of the greatest tasks in the world and one that is as yet perhaps least understood. Get a pass to go through some building during construction, and then if you are not afraid, go through it thoroughly and see if you be interested

## Immense New York Structure.

New York, N. Y., March 31.—The Land Purchase Co. have arranged for the erection of a twenty-five-story office building at No. 37 to No. 43 Wall street. This structure will be 318 feet in height, and will have a frontage of 61.08 feet, and a depth of 130 feet. The facale of the building will be of Italian Renaissance type. This will have a graphs becoment tone with own. will have a granite basement store with ornamental limestone above. The structure will cost \$1,000,000.00, and the first floor and basement will be used for banking quarters.

### Railroad Contractors Busy.

DANVILLE, KY., March 20.—Billiter & Rednower, large railroad contractors, have secured a nice contract at High Bridge, which means the clearing of considerable debris so as to permit of operating a quarry, which has been opened here. It means about \$30,000.00 to complete the job. They also have at present some other nice contracts and seem well pleased over the prospect.

#### Fine Limestone for Road Building.

Jackson, Mich., March 21.—One of the serious obstacles with which we have to contend in this section is the construction of durable roadways. Up to the present time considerable gravel has been used, which, while giving reasonable satisfaction, has had a very serious drawback on account of the cost of procuring it. Several blocks have been paved with bitulithic pavement but these are far too costly to permit of their general acceptance; therefore we have been giving the matter considerable attention. Limestone has been found to be an almirable material for such purposes in many localities, but thus far we have been unable to obtain a sufficient quantity for our needs at a fair price. Now, however, the problem is apparently solved. S. W. Green, who resides near here on the Cincinnati Northern railroad, has found a limestone on his farm in large quantities, which will answer the purpose of top covering for roads most satisfactory. In addition to this it can be secured cheaply and consequently our people are highly pleased over the prospect of better roads in future.

### Secures Large Contract.

PORTLAND, ME., March 30.—One of the largest contracts awarded during several years has just been secured by the Maine and New Hampshire Granite Corporation, of this city. This contract calls for the granite to be used in the construction of the main building of Marshal Field & Co.'s immense stores at Chicago, Ill. This building will be fourteen stories in height, fronting on State and Washington streets, and will be construct dentirely of granite. This contract was secured in bidding against many large concerns, and with other large orders on hand will keep the company busy for some time.

The County and Suburban Construction Co. last been incorporated at New York, N. Y., to do contracting, construction and engineering. The cast tal stock is \$5,000.00. Albert L. Morse, Sea sdale, N. Y., Bertrand F. Bell and Edward H. B'ane, both of New York, are the incorporators.

The Whitney Construction Co., of New York City, has been organized with a capital stock of \$10,000.00. The company will engage in the real estate and building business. The incorpora'ors are John F. Harris, Edger A. Whitney and Francis C. Nye, all of New York.

The New Century Contracting Co., of Mineola, N. Y., has been organized to erect structures. The incorporators are: Henry T. Weeks and William W. Knapp, Bayside, L. I., William B. Barnford, Trenton, N. J.; Wm. W. Knowles, Flushing, N. J. The capital stock is \$10,000.00.

The Plaza Realty and Construction Co., of New York, N. Y., has been organized with a capital stock of \$5,000.00, to do a real estate and building business. Jos J. Back, Leo J. Soloman and Nathan Kalvin are the incorporators.

The Cook & Evans Co., has been organized at New York, N. Y., to do building, construction and engineering. The capital stock is \$5,000.00. John M. Evans, Mary G. Cooper and William G. Cooper are the incorporators.

The Monolithic Construction Co. has been incorperated at New York City with a capital stock of \$5,000.00. The incorporators are Henry A. Stum, New York; Marcus Guericolas, Paris, France; E. Daniel Miner, Mt. Vernon, N. Y. The company will do a contracting and building business.

The W D. Lewis Co., of Elizabeth, N. J., has been incorporated with a capital stock of \$100.000.00. The company will do designing, architectural work, building, contracting, etc. Wm. D. Lewis, Roselle, N. J., Pares B. Polhemus, Arthur F. Lewis, Roselle Park, N. J., are the incorporators.

The Essex Construction Co., of Buffalo, N. Y., has been organized. The capital stock is \$50,000.00, and the incorporators are: Chas. C. Huestis, Herbet E. Crouch and Robert P. McKee. The

company will do general contracting and engineering,

The Clinton Construction Co., of Brooklyn, N. Y., has been organized with a capital stock of \$5,000,00, to do a construction and contracting business, building railroads, gas and electric works, etc. Wm. B. Mount, Wm. N. Benkart, and Wm. J. Bagnell are the incorporators.

The Dover Construction Co. has been organized at Dover, Mass., to do a general construction business. The capital stock is \$10,000.00. The officers are: Chas. W. Sawyer, president; Jas. McGill, treasurer and clerk.

The Morningside Co., of Cambridge, Mass., has been incorporated with a capital stock of \$60,000.00. The company will do a general building and contracting business. The officers are: Fred A. Ewell, Boston, Mass., president; M. Lux, Greut Barrington, Mass., treasurer; G. M. Faulkner, 71 Chestnut street, Cambridge, Mass., Clerk.

The William L. Platt Construction Co., of Paterson, N. J., has been organized with a capi al stock of \$100,000.00. They are contractors, builders, decorators, etc. William L. Platt, Glen Rock, N. Y.; Chas. H. P.att, Paerson, N. J.; Water Piatt, Suffem, N. Y., are the incorporators.

## The Successful Bidder.

The successful bidder for the County Building at Chicago, Ill., was the William Grace Co., widely known contractors in every large city in the country. The head and leading spirit of this large organization is Mr. William Grace, whose picture



WILLIAM GRACE, CONTRACTOR CHICAGO, ILL.

we herewith present to our readers. He is one o' those energetic workers whose achievements are always worthy of the man, and under his guidance this latest undertaking will rapidly assume shape as another evidence of his constructive ability.

The Model Realty and Construction Co., of Newark, N. J., has been organized with a capital stock of \$125,000.00. The company will engage in the real estate, building and contracting business. A. A. Brohm, and Jacob and Samuel S. bloss are the incorporators.

The White City Construction Co., of New York, N. Y., has been organized to do all kinds of construction. The capital stock is \$200,000.00, and the incorporators are: F. C. McIver, A. C. Ormsbee, E. V. Harman, E. R. Chapel, all of New York, and Cortland Babcock, of Montclair, N. J.

The Highbridge Construction Co., has been organized at New York, N. Y., with a capital stock of \$2,500.00. The company will build railways and do contracting. Jas. Pilkington, J. A. Corbin and P. M. Cassidy are the incorporators.

The Modern Contracting and Construction Co., of New York City, has been organized with a capital stock of \$5,000.00, to engage in the real es-

tate and building business. Saul Amsterdam, Sarah Amsterdam, Chas. Dreyer, Pauline Dreyer, are the incorporators.

The George A. Varney & Co., of White Plains, N. Y., has been incorporated to do building and contracting. The capital stock is \$75,000.00, and the incorporators are: George A. Kues, L. J. Cstrander and George A. Varney, all of New York.

The Canavan Bros. Co., of New York, N. Y., has been organized to do building and excavating. David P. Canavan, John F. Canavan and Maurice J. Canavan, are the incorporators. The capital stock is \$10,000.00.

The Felt Construction Co., of New York, N. Y., has been organized with a capital stock of \$30,000.00. A. L. Felt, Patrick Lanergan, both of New York, and Alfred E. Smith, of Bronxville, N. Y., ere the incorporators. The company will do building and construction.

The Advance Realty and Construction Co. has been organized at New York City, with a capital of \$10,000.00, to engage in real estate and building. Julius Miller, F. J. Davison and Sophie Marks, all of New York, are the incorporators.

The Solida Realty and Construction Co. has been organized with a capital of \$10,000.00, at New York, N. Y. The company will engage in real estate and building. Herman Aaron, D. J. Mendelson and Sol Rothschild, all of New York, are the incorporators.

The Abels & Goli Construction Co., o' Booklyn, N. Y., has been incorporated with a cipital stock of \$10,000.00, to do a real estate and building business. Simon Abels, Louis Gold, both of Brooklyn; Mortimer Schlustein, of New York, a e the incorporators.

The National Grading and Construction Co., Lynn, Mass., has been organized with a capital stock of \$10,000.00. The officers are: President, M. L. Urann, of Boston; treasurer, W. N. Morrison, Lynn; clerk, M. M. Urann, Kittery, Mass.

The Denver, Laramie and Northwestern Railroad Co. has been organized at Cheyenne, Wyo., with a capital stock of \$5,000,000.00, to build, operate and maintain a railroad from Denver to some point in Wyoming. Construction will tegin very stortly at Fort Collins. Chas. S. Johnson, of New York, is president.

The Tiffany Construction Co., of New York, N. Y., has been o ganized with a capital stock of \$10,000.00, to engage in real estate and building. Barnet Osman, Louis Lockwood, Jacob Rosenberg and Samuel Rosenberg are the incorporators.

The International Construction Co., of Augusta, Me., has been organized with a capital stock of \$100,000.00. The company will build ves els, ralras, etc. The president and trasurer is J. L. Fairbanks, and clerk, L. A. Burleigh.

The Deal Park Construction Co., has been organized at Jersey City, N. J., to construct roads, sewers and water mains and works. The capital stock is \$30,000.00. Jas. C. Young, Jersey Ci y; C. M. Fowler, Lakewood, N. J.; Fred B. Langstop, Deal Park, N. J., are the incorporators.

The City Excavating and Contracting Co., of New York, N. Y., has been organized with a capital stock of \$5,000.00, to build railroads, etc. William Kelly and Daniel J. McCoy, both of New York, and Archibald McFarlane, Brooklyn, N. Y., are the incorporators.

The Roco Realty and Construction Co., of New York, N. Y., has been incorporated with a capital of \$10,000.00, to engage in the real estate, and building business. The incorporators are: Simuel and Fanny Roseff, Mamaroneck, N. Y., and Robt. Cable, New Rochelle, N. Y.

The De Graw Sterling Construction Co. has been organized at Brooklyn, N. Y., to engage in the real estate and building business. W. F. Bowman, Hempstead, L. I.; Chas. Tower and Jas. M. Doremus, both of Brooklyn, are the incorporators, The capital stock is \$100,000.00.

The King Construction Co., of Boston, Mass., has been organized with a capital stock of \$100,000.00. The president and treasurer is Charl's King, Boston; clerk, E. W. Freeman, South Portland.

The National Contracting Co. has been organized at Augusta, Me., with a capital stock of \$500,000.00. The company will construct houses, bridges, etc., and the officers are: J. L. Fairbanks, president and treasurer, and L. A. Burleigh, clerk.

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## Architectural

#### A Chair of Architecture.

In connection with the present scheme of the extention of Queen's College at Belfast, Ireland, a deputation of the council waited upon the president of the institution to advocate the establishment of a chair of architecture or at least a lectureship. This is a move in the right direction and it is to be hoped that the suggestion will find root in many of our American schools; not with the purpose of graduating a class of proficient architects, but in order to at least ground our college bred men and women in the first principles of appropriateness in construction.

The Greek architect was not entirely responsible for the elegance of Grecian a chitecture. Each design to a great extent, reflected the refinement of the whole population of that nation of artists. If incongruous designs are found among our characteristic American houses the architect cannot be held responsible. He labors under try-ing difficulties inasmuch as his artistic temper-ment induces him to adhere to the strictest requirments of architectural nicety, while on the other hand he is in a way compelled to sacrifice art to the wild and fantastic imagination and the whims

of the ordinary American citizen.

Nothing can do more to further the cause of architecture than the enlightenment of the masses in this directon. Such education will necessarily result in the co-operation of architect and client the cause of art and check the continual tion between them. The more widely diffused this knowledge becomes the lighter the task of the architect and the more beautiful our buildings This is especially important to-day when we are building for future ages, for by our works shall we be judged.

## A Prevention Against Fire.

One of the greatest steps forward would be ta or if people would get out of the habit of open stair and elevator shafts. Build new structures with those well closed in, and in old fire trap buildings put a fireproof partition around the stair and elevator wells and if you need light in them put wired glass, and have the doors self-acting spring doors of asbestos or metal or wired glass wood and tin combination-anything that will stand fire for at least a little while. The most po-tent conveyor of fire will then be closed off and those very dangerous parts, the stairs and elevator will, indeed, become fire escapes. With that pre-caution, a fire that occurs on one story can easily Fire does not travel over-rapidly har izontally, but its flight upward, carrying a devastation in its wake, is rapidity itself. Some years ago, a warehouse containing several thousand bales of cotton was burned. It was a long, low warehouse and that cotton burned for many a day. Not long afterward a very similar quantity of cotton stored in a five-story warehouse also burned. From the time the fire first declared itself until bere was nothing left but a few embers, a smoullering mass and some dangerously shake wall, just four hours had elapsed. That is but one of he many illustrations that could be cited in ubstantiation of a plea to close the vertal openings in buildings.—N. Y. Commercial.

## Wall a Conflagration Barrier.

From a fire protection standbo'n', the northall of the great new Trinity Building in New ork City is of wide interest. It is instructive. by reason of the completeness with which interior is protected against assault of fire rom without, and for the function which the tructure as a whole plays in reducing the gen-al conflagration hazard of lower New York.

At the time of the building's design its site was prounded on the north and west by low highly

inflammable structures, extending even to the shore of the river itself. Backing on Thames and Church streets—both narrow and cong s'el thoroughfares-the exposure fire hazard was pronounced. To eliminate this danger. "Miss s lp-pi" wire glass was installed in every window shown—polished where lighting offices, rough

Not many years ago a fire occurred in New York which taught impressive lessons. A large c'othing store standing next to the 15-story Home Life building took fire and spread to the latter The progress of the fire was finally checked by the blank fireproof wall on the south side of the high building.

Two points were brought clearly in view. The great value of fireproof walls in checking sweep-ing conflagrations and the necessity for enclosing tall buildings on all sides by such the Home Life been provided with suitable window protection on the north, it would have performed a valuable service as a fire stop and

would itself have escaped destruction.

These lessons were well taken by the designer the Trinity Building, with the result that a at conflagration barrier now serves in protecting New York's financial district.

Eventual'y an extension, even larger than the original bul ding, will occupy the ground to the north, the blank wall shown forming one side of a great court, but similar fire protection will te characteristic of the new work, and the large public value of the structure remain undimin-ished.—From Insurance Engineering.

## A Novel Building Material.

New England, N. D. possesses what is probably the most unique school house ever ere ted in this country. The building is one story high, 25 f et square and built entirely of petrified wood, cepting the roof which is shingled.

The wood of the ancient forests which covered the prairies there years ago became agatized and in the absence of other building material the people of the town determined to erect their primitive schoolhouse from this ex raor inary material. Great care has been exercised in its construction and fair attempts at archite tural reauty have resulted in rather pleasing effec's.

The material is of such fine texture, and so hard that it is entirely impervious to all weath r conditions and will withstand hard usage.

Waen the sun shines upon it the structure glitters like gold. However, this part of its becuty might not last very long if it were situated in one of our smoke laden cities.

## Architecture of India.

Prof. Simpson, of Manchester, England, says: In Indian architecture the buildings of some races are all lintelled, whilst others are arched and domed. "An arch never sleeps," says the Hindu proverb, and the Hindu, therefore, doubts its stability and leaves it severely alone.

## How the Hindu Builds.

He spans his openings by beams—by a single one if the space be narrow, by many if it be of considerable width. In the latter case the beams are placed one on top of another, and each in turn projects in front of the next below, like a bracket. He does not object to the shape of the arch, or at all events he did not in the past. On the contrary he used the form frequently when building in stone. But his arch is not a true arch. He laid his stones, as he laid his beams, horizontally. In the north of India there are many Hindu domes, and one would have thought that there would have been built as the Byzantines built them and as we build them now. But no: the same principle of beam on top of beam—in this case they cross one another, generally diagonally—is followed, until the opening at the top is sufficiently small to he closed by a single piece of stone

## How the Mahometan Builds.

The Mahometans built quite differently. mosque was not a mosque, a tomb not a tomb, unless it had an arch in it. For some time they were dependent on Hindu labor, and their arches although of Saracenic form, are built in Hindu fashion. But about the middle of the fifteenth century they learnt to build more correctly, and many of their subsequent arched openings are amongst the largest and finest in existence. Morethey built domes which can hold their own any in Europe. The dome over the tomb of Mahmud at Bifapur is 135 feet in diameter, practically the same width as the dome of Florence Cathedral. But the Florentine dome and the wall below it are the same in plan, octagonal, whereas the Indian dome is a circular one placed above a The difficulties of construction were thus increased enormously, and the manner in which they were overcome is both beautiful and ingen-

### Indian Pyramids and Rock Halls.

Amongst the oldest and largest of the very early buildings of the country are the domical pyramids or topes and the caves or halls excavated The former may not rival the pyrathe rock. nids of Memphis in size, nor the latter the rock cut tombs of Thebes in extent, but they are nevertheless of great interest. The finest of the caves is at Karli, between Bombay and Poonali. Ir. plan it resembles an early Christian church, as he plan it resembles an early Christian church, as, besides being divided into nave and aisles by columns, it finishes at one end with an apse and ambulatory, whilst at the entrance the side columns are returned across to form an inner narthex, as in S. Agnese, Rome. The date when it was excavated is said to be B. C. 78.

#### The Mystery About Greek Forms.

How Greek ornamentation—the acanthus leaf and other Greek forms—found its way into India will probably never be known for a certainty. Perhaps from small carvings, in the same way as Byzantine ivories influenced the sculpture in the South of France, especially in and around Tou-louse. Other foreign influences entered as well. At Allahabad is the Assyrian "honeysuckle," carvround one of the tall, slender, circular obelisks, lats. But the most curious examples of all are a number of pseudo Corinthian capitals, some which are now in the Museum at Lahore. The are not exactly like any known series of Greek, Roman or Byzantine capitals, and yet they must have been inspired by European work. mind one somewhat of the capitals at Philæ, carved in Ptolemaic times, after Egypt had been c nquered by Greece

### Building Code Joke.

NEW YORK, N. Y., March 21.-Pleasantries, jokes even, are not confined to private life; they invade public affairs and sometimes creep into legislation and municipal proceedings. An instan e of this kind has arisen in New York city in connection with the movement toward a revision of the building code. Some time ago Mayor McClellan called upon the board of aldermen to bestow upon him authority to appoint a commission for the revision of the existing building code. In compliance with this combination recommenda-tion and request the board of aldermen has, after ome delay, responded, and that nobly, if a little resolution providing for the ap pointment of such a commission has been formalintroduced, according to the terms of which the commission is to be composed of a builder, an ironworker, a mason, a carpenter, a plumber, an architect, a civil engineer, a sanitary engin er,

an architect, a civil engineer, a sanitary engin er, a physician and a lawyer.

Exactly why a wall paper manufacturer, candlestick-maker and hod carrier were omitted none save the genius who drew the resolution can safely attempt to say. Exactly what the mayor will do if the resolution passes would likewise be hard to say. It is hard enough to get "doctors" to agree, but who ever heard of such a conglomerate commission, made up of seemingly har ronjous but really warring elements, ever coming erate commission, made up or seemingly har obious but really warring elements, ever coming
to an agreement except, possibly, on agreeing to
disagree? The mayor might well send in a speclal message suggesting that "there's nothing like
lather" and asking for powe to appoint a representative from the "Swamp."

## Thirty-Story Office Building.

New York, N. Y., March 21.—What will be the largest and finest office building in the world will largest and finest office building in the world will be erected in this city. The site for this mam-math structure, which will probably be thirty sto-ries in height, is at Church and Cortlandt Streets, property now occupied by the Coal and Iron Ex-change, but which was recently purchased by the City Investment Co., who will erect the proposed new building. Mr. Robert E. Dowling, president of the purchasing corporation, is unable to say when the improvement will begin owing to the fact that some of the present tenants of the property have leases which are yet unexpired. As far n be ascertained no plans have yet been made fur the construction.



## The National Quarry Owners' Association.

Meets Semi-Annually.

D. McL. McKay, Chicago. III	President
Chas. A. Pfeiffer, St. Joseph, Mo First Vice	President
E. T. Fancher, Albion, N. Y Second Vice	
Sol. M. Wolf, Bellevue, Ohio Third Vice	
H. H. Defebaugh, Louisville, Ky Secretary-	Treasurer

Official Organ, ROCK PRODUCTS.

## IN THE OOLITIC DISTRICT.

The Advent of Favorable Weather a Boon to Quarry Operators. Bright Prosspects for the Season.

## ALL THE QUARRIES WORKING FULL FORCE.

Bedford, Ind., April 4.-With the first signs spring, the quary operators in this section we renewed active operations, after several onths of comparative inactivity in which they months have waited patiently for clearing skies, which is so essential at this time of the year in their business. The past month in this section was one of the most disagreeab e experienced in many years, considering the lateness of the season and no one feels it more readily than quarry operators. Rain in many respects is just as bad as snow, and this section has been amply supplied with the former during the past few weeks.

Certain parts of the country between here and

Oclitic are so flooded that it is almost impossible and oftentimes dangerous, to attempt to ford them. Conditions like these have worked great hardships on quarry owners and up to within a few days ago all of them were closed down. Since the first of the month, however, the weather has been very propitious and every quarry has opened up full handed and are now working to make up for the time lost. The indications for an active season and a large demand for stone has never been better, and it naturally made the operators a little nervous when the weather con-tinued unfavorable for so long a period, thus seriously handicapping them in filling their num-

There was some fear of labor troubles among some of the operators, but it has not amounted to anything, however, as had been expected. The stone men are well prepared against any possibility of this kind, and are consequently not very much worried about the affair which they considquite trifling.
During the winter months a number of plants

have been overhauled, some few improvements made and preparations are now about completed for the season's industrial seige.

**Quarry Operations Active** 

Quarry Operations Active.

The C. L. Norton Blue Stone Co., with offices opposite the courthouse, report the outlook as exceptionally fine. We found Mr. Norton in his office bright and early and he said that he believed the present year would be one of exceptional activity for the stone industry. They have a number of large contracts on hand and since the first of the month, have begun active operations at their quarries. at their quarries.

Carl Furst of the Furst-Kerber Cut Stone Co., said that conditions with them were satisfacbut they were not rushed with orders just the present time. They had not made any particular effort, however, to solicit orders and this accounted for the fact that they did not have to solicit orders and their usual rush. They were satisfied with the amount of work they had on hand, which kept their large plant busy, but would in the near future begin their campaign for the season's work. Indications pointed to great activity in this respect and they would undoubtedly get their share of

Out at the Climax Stone Co.'s plant, we found Mr. F. R. McKinley, the genial proprietor, who

reported conditions with them to be amply sat-Not at any time during the past year has this large concern been without as many or-ders as they could handle. Mr. McKinley said that they had resumed active operations at their quarries and with the continuance of favorable weather would be quarrying considerable stone in the near future.

Has Plenty of Orders

John A. Rowe has a number of large orders on hand, which are sufficient to keep him actively engaged until late in the summer. Among ington, D. C., the post-office at DeKalb, Ill., the post-office at New Castle, Pa., the potoffice at Huntington, W. Va., and a large bank building at Stanford, Conn. There was a slight fire at Mr. Rowe's plant some time ago, caused by an explasion of a lamp, which seriously damaged one of the travelers. The machinery was very bedly damaged before the fire could be extinguished, but the traveler proper was not damaged so that it could not be repaired. The matter was adjusted in a short time, so as not to delay operations very long

At the office of the Bedford Steam Stone Works, we found Mr. Ed Thornton in his customary happy mood and he reported they were fairly well rushed with orders for cut stone. He believed ed the season, judging by present indications, would be one of the best in the history of the stone industry, as each month gave ample indications of this fact. Mr. Thornton is one of the few chaffeurs of the stone district, being an expert operator of an automobile. He was bemoan ing the fact, however, that he had had very use of his machine during the past several months, owing to the inclemency of the weather, but he intended to get the steam up in a day or so and take a spin over the delightful roads of Lawrence We were only regretting that we not be present to enjoy one of these delightful trips, but hope we will be able to take advantage of one of them before many moons.

No Dearth of Orders

The Bedford Quarries Co., whose quarries and mills are located at Oolitic, have renewed active operations at their immense quarries and are working full forces endeavoring to make up for their time lost during the past month's inactiv'ty. which was made necessary by the continued rain and snow. They have an immense number of orders on hand among which is getting out stone for the Kentucky State Capitol job. They have the contract for getting out stone for this immense job and have been able thus far to meet the demand readily. They believe that this season will surpass all others, not only in building operations, but the popularity of Indiana Oolitic stone as well, which is undoubtedly making great advances buildings of more than ordinary magnitude are to be erected.

The Brooks-Curtis Stone Co., through Mr. Brooks, whom we found very busy, said that they had an ample supply of orders on hand for building stone and a number of contracts. The general indications are most favorable for this season' operations and they are well pleased with condi-tions, now that the weather has become more fav-Their new drafting room has been completed, which adds very materially to their office room and which they find now almost invaluable

Wm. Bradley & Son, report conditions about the same as they were a month ago. Superintendent Borst said there was nothing particular new to mention, aside from the fact that they working at their plant full time and with full force.

Still Busy on Big Job

Mr. M. F. McGrath, of the Dugan Cu<sup>\*</sup> Stone C<sup>\*</sup>, as overseeing the shipping of a number of cars f finished stone of the Kentucky Capitol job representative called. He said that a great deal of the stone was now prepared be shipped to Frankfort, and within ten days' time they expected to set stone in the walls. A glance through the immense shed, piled high with stone on every side, was an evidence of the capacity of this large plant, and their ability to handle contracts of such magnitude as this is clearly evident by the business-like manner which they have taken care of it. Another feature connected with this organization is not only the care with which they handle this stone, but the manner in which it is shipped out. Mr. Dugan is away on a trip to Hot Springs, being a kind of an annual vacation and recuperating re-iod, which he finds it necessary to take. Nothing serious is the matter with Mr. Dugan, as his friends will doubtless be glad to hear, because there is no man in the district more universally liked.

of the Perry-Mathews-Buskirk Stone Co., Superintendent Nat Joiner greeted us with a broad smile and we judged by this that the bright sunshine had had its desired effect upon him as it had had upon some of the others in the stone business. He was happy over the fact that the weather man had been good to them during the past few days, and had consequently begun operations out at their large quarries at Oolitic. They had employed a full force and were litic. They had employed a full force and were getting out thousands of feet of stone to complete their numerous orders already in hand. He said that conditions appeared to be satisfactory and the outlook was about the same as it was a year ago, which had been the banner year with them. Their immense mill north of the city was running full handed and nothing, unless the weather full handed and nothing, unless the weather should become inopportune again, could mar their sanguine hopes.

Outbok Very Line

At the office of the Norton-Reed Stone Co., where are also located the offices of the Oclitic Stone Co., of Indiana, and the Bedford Quarry Co., of which Mr. Robert Reed is largely interested, they find conditions rather favorable new for a big year. Mr. Reed, when speaking of the matter, said they were well pleased with the cutlook and had taken advantage of the changed weather conditions to begin active operations at their several quarries. Unless all signs fail, in his opinion, they will have all the orders they in take care of until late in the season.

The Bedford Stone and Construction Co.,

recently opened an office in this city, are taking active steps to get things in shape for early operations. Surveys have been made for the construction of the Bedford-Wallner Railroad Co. which will connect the quarries with the B. & O. Railroad. We failed to connect with Mike Wall-ner, who was out with the surveying party at Railroad. the time of our visit, much to our disappointment. Within a few days they expect to begin actual work on the railroad and hope to be able to have their mill completed by the first of July. The stone quarried thus far has even surpassed their opes and has many points of advantage over one found in various sections of the country. A visit to the plant of John Naugle, the veteran

monument manufacturer, found everything in ac tive operation. Mr. Naugle said that he noted an improvement in his output for Oo monuments, and believed that this would be good year for monumental operators. Mr. Naugle is a genial gentleman of the "old school" and is one of the pioneers of the stone industry in this

The Bedford New York Quarries Co., and the Bedford New York quarries Co., and the Bedford Buff Quarries Co., with offices opposite the Court-house, are actively engaged at their quarries. Mr. F. B. Norton is prominently connected with these concerns, but unfortunately we were unable to locate him and therefore are unable to give a full report of their operations.

It is rumored that the Consolidated Quarry Co.

intend to erect a new mill in this city in the near future, although we were unable to get the facts in the matter, and therefore cannot make this statement authoritatively.

The reports from the Dark Hollow district are satisfactory, and with the advent of sprin; weather operations have begun in earnest.

## BLOOMINGTON, IND.

BLOOMINGTON, IND., April 4.-Witho t an ex-BLOOMINGTON, IND., April 4.—Witho t an exception, all of the quarry operators and cut stone men in the Bloomington district are in good spirits over what promises to be the most profitable and prosperous year in the Oolitic stone industry. The changed weather conditions have acted as an incentive to urge the operators on and the music of the channelers is heard on every side.

Not only throughout the country have building operations gone on at a rapid stride, but in Bloomington itself, where there has been more than usual activity. There are several large structures to be erected out of Oolitic stone, one of which is now on the way, being that of an immense addition to the University of Indiana located here, which will cost about \$100,000.00. The new courthouse will soon be a realization as there has already been an appropriation of \$115,000.00 set aside for this purpose. This is to be a modern structure in every respect, erected This is of Oolitic stone and will doubtless cost consider able more before same is completed. Bids have

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been advertised for it, so that active work will begin within a few months time.

The Bloomington Cut Stone Co.

Some mention was made last month in reference to a new organization in which Mr. W. T. Blair is prominently interested. This is now taking active form and the organization will be known as the Bloomington Cut Stene Co It has been incorporated and capitalized at \$25,000.00 with the following officers: H. B. Gentry, president, Charles Franzmann, vice-president and general manager, W. T. Blair, secretary, and W. S. Bradfute, treasurer. Ground was broken some time ago for their stone mill which will be erected just south of this city and which they expect to have completed in a short time, the weather permitting. We found Mr. Blair at his resier permitting. We found Mr. Blair at his residence and he informed us that he hoped to be

in active operation by June 15.

This company will have a modern plant in every respect. The size of the mill being 120x53 feet. Among the equipment that will be installed in a short time, will be two gang saws, two planers, two lathes and a twenty-ton electric traveller, all of the New Albany Manufacturing Co.'s make. In addition to this a lengthy tramway, which w l be 50x150 feet, will be erected. Mr. Blair expre sed himself as being much gratifie | over the prespect for future business and there can be no reason to doubt that this will be a realization. There is nobody in the whole district who is better is nobody in the whole district who is better known and better posted and more universally liked than Billy Blair. He is a man without enemies and his genial manner and thor ug's knowledge of the stone business has soo'h m in

good stead during the many years of his actual connection with the Central Oclitic Stone Co. At the office of the Eagle Stone Co. we learned that Superintendent Kern was out of the city, but the report was that they would begin operations at their quarries now and had every reason the lock for great very learners and had every reason to look for a good year's business.

Pig Company Recy.
The Chicago and Bloomington Stone Co., where are also located the offices of the Johnson-Mathews Stone Co., and Mathews Bros., report conditions have taken a favorable turn since the springlike weather has made its advent. Both Messis. Johnsen and Mathews were absent at the time of our visit, having gone to the quarries where opera-tions are now under way. They have an ample amount of orders on their books and believe that the spring weather will be most beneficial to op-

erators in their lines.

The Monarch Stone Co., complain that they have really more than they can properly take care of and they have just finished overhauling their mill in order to facilitate matters to some extent. in order to facilitate matters to some extent, thereby making it possible to turn out larger amounts of finished stone. This company is more than pleased with prospects for further business, of which they have certainly had their share in the past. Among the big orders which they have secured is a large contract at Pittsburg, Pa., which will require many thousands of feet of stone.

Another new organization which is just materializing here is to be known as the Hoadley Stone Co., being composed of John and Elmer Hoadley, of Stinesville, and John Hoadley, Jr., of Urbana, Ill. They have begun the erection of a modern mill and expect to be operating within about thirty days' time. Among the equipment to be installed will be three gang saws one placer of the stalled will be three gang saws, one planer of the New Albany Manufacturing Co.'s make and a header.

The Central Oolitic Stone Co. report conditions just about the same as a month ago, which means that they have all they can conveniently take care of. Mr. Mahan said that the outlook was most favorable for cut stone operations and expressed himself as being well pleased with the situation

in general.

The National Stone Co., who operate cuarries and mills near this city, have resumed active operations at their quarries during the past week.

The South Side Stone Co. have shut down work for a week or more overhauling their relant and equipping their derricks with new sticks. Mr. Joe Campbell said that the general indications were for a big year and they had enough to keep them busy for the present time.

We called at the offices of the Crescent Stone Co., as also the offices of the U. S. Quarries Co., and the Buffalo Quarries Co., but failed to find any one there, and judged that the proprietors had taken advantage of the delightful weather to visit their quarries where active operations are now well under way.

### A Complete Sandstone Plant.

The Taylor Stone Co., at Rarden, Ohio, of which Mr. L. Taylor is the proprietor and Mr. A. L. Reedy is general manager, is one of the most progressiv millers and producers of sandstone in the great Ohio sandstone field. An air of progress pervades the entire plant, which is due to the co-ope atel efforts of both Mr. Taylor and Mr. Reedy who is a mill man of much experience. This company buys the majority of the product of several surrounding controls in the relative of Pervade 1. where perfect buff, blue and gray sandstone is quarried. The stone from this section is called freestone and forms the southern limits of the state of this freestone in this limits of the state of this freestone.

strata of this famous Ohio building material.

The Taylor Stone Co. operates a modernly equipped mill at Rarden, a picture of which is published herewith. At present the plant is undergoing improvement, which will mean an increase in its capacity of fully 35 per cent. When completed the mill will contain ten New Albany gang saws of newest and best type, and the output of the mill will probably exceed ten cars per day. Railroad switches are also being extended in order to facilitate the handling of the product. All of these improvements will be completed in a week or so and in the meantime in response to a rush of orders a part of the mill will be in operation.

Mr. Taylor is an exceptional man. He came to Rorden twenty-five years ago without a dollar in his pocket. His first engagement was driving an ox team for a man who operated a sawmill. In time Mr. Taylor owned one-half interest in the team, later he bought the team. Then he bought ore-half of the sawmill, then purchased the entire plant and in this manner he has proceeded until at present his interests in timber and stone lan s is enormous.

Much of the success of the Taylor Stone Co. is due to the energetic ability of Mr. Reedy. He says that the outlook for business this year is far great-

Have a Good Curbstone.

The Wellman Stone Co., whose head office is in Cincinnat', O., are quarry'ng sandstone of peculiar properties, at Henley, O. This stone was discovered by Mr. Ed. Wellman of the company, about five years ago, and since that time much success has been met in marketing the product for use as curbing and foundation stone. Owing to the fact that the stone is slightly marked with iron makes it undesirable for building purposes, but the analysis which shows 92 per cent silica, 7 per cent alumina, 2 per cent magnesia with a trace of iron and lime, does make it a very hard stone of great strength, especially adaptable to the uses to which it is put. A test by Prof. Marks of the university of Cincinnati showed that the stone would stand 12,400 pounds pressure to the first crack with a crushing strength of about 14,

Sprague Flectric Company

MANUFACTURERS OF

## FLEXIBLE STEEL ARMORED HOSE



## FOR STEAM OR COMPRESSED [AIR

One of the largest quarry companies writes: "In all our experience we never have seen the equal of this armored hose.'

The remarkable qualities of the Flexible Steel Armored Hose have made all users enthusiastic over it. The nature of the armor makes the hose absolutely reliable, and its strength and durability are vastly greater than those of any other protected hose on the market. Investigate it. Write for a copy of Descriptive Bulletin No. 50541.

GENERAL OFFICES:

527-531 West 34th Street. NEW YORK. CHICAGO OFFICE: Fisher Building.

It is expected by the Wellman Com that about 20 miles of curbing will be don't with their stone in Cincinnati this year owing to the fact that the Board of Public Service has

accepted the stone for that purpose.

Tests are being made with a view to using the stone as lining for kilns of various kinds, as it has been found that it is highly fire-proof, owing

to the amount of pure silica in the rock.

The Wellman quarry is well equipped with Ingersoll-Rand channelers, crushers, derricks, etc., capable of producing 25 cars of stone per day. crushed stone makes an excellent aggregate concrete work and is sold largely for this purpose



CUT STONE PLANT OF THE TAYLOR STONE CO., AT BARDEN, OHIO

### Another Stone Quarry Co.

MANKATO, MINN., March 29 .- What is known as the Widell Company, an organization wi h a capital stock of \$50,000.00, has been neorporated The company will do a general quarrying and masonry construction business. The office s are: President and treasurer, Gen. Sam'l Widell; secretary, Senator Eberhart; C. S. Hallstrom is a so interested. The company will operate two quarries which were formerly operated by General Widell. It is believed work will begin with-

#### Will Develop Fine Deposit of Stone.

COLFAX, WIS., March 30.—A new some quarry has been opened here, and the Colfax Stone Co. has been organized in order to develop the same H. Walter is to superintend the quarry, and the M. Walter is to superintend the quarry, and the company will soon be in a position to put a fire quality of building stone on the market. The quarry will be equipped with the best machinery and before long will be operating on full time.

## New Ouarry Organization.

On January l, a new firm was organized at Laceyville, Pa., as The A. H. Harris Stone Co. The company purchased the loading docks at Meshoppen, formerly operated by Dougherty & Kellogg, and the stock on hand. They also purchased the yards at Laceyville, forme ly operated b. A. H. Harris, having openel several quarriss which will give employment to about 300 men. They expect to soon be in shape to fill all orders for blue stone flagging or curbing.

## Have Plenty of Orders.

The Allegheny Stone and Sand Co., of Columbus, Ohio, inform us that they have more buiness than they can take care of. The prospects are for even more business to follow. They are amply satisfied with the year's prospects.

The Brown Quarry and Construction Co., been organized at Avoca, Pa. The capi at stock is \$20,000.00. The company has purchased 230 acres of quarry land and will soon been operations. The directors are Wm. Brown, H. G. Brown, The directors are Wm. Brown, H. H. L. Edsell and William T. Douglas.

A company has been organized at Scranton, Pa., of which W. L. Connell is president and Reese G. Brooks, secretary, with a capital stock of \$3,000,000.00. The company will quarry stone at Forest City, where they have purchase! 512 acres

The Safety Blasting Powder Co., of New York City, has been incorporated with a capital stock of \$175,000.00 S. C. Phillips, E. H. Baxter and William Brockwehl, are the directors.

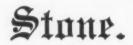
The Windsor Mills Stone Quarry, located at Windsor Mills, Ohio, has been purchased by some parties from Cleveland, among whom is M. M. G'eichman. The property consists of fort-nine acres.

The United Soapstone Co., of Ches er, Mass., has leased property near Cambridgeport, Mass. and will develop the soapstone deposit, seventy-five men will be employed. About

The Champlain Stone Co., has been organized the Whitehall, N. Y., with a capital stock of \$20,-000.00. The company will operate quarres along the Champlain canal. Those interested are: J E. Flood, J. D. Sherrill and N. T. Drake

## Making Extensive Improvements.

In the last issue of ROCK PRODUCTS it was stated in a brief notice that the Root Bros. Co., of Indianarolis, were making extensive impovements at their quarries near Penlan, Va. Ths from was a mistake inasmuch as the quarries re-ferred to are the property of the Penlan Sale Co., and are operated by their owners. The improvements now under wav consist of three additional holds of the self-dumping type, new cables, engine, boiler, pump, etc. The masts of th se quarries are the highest in the district, beth se quarries are the highest in the district, being respectively 143, 128 and 137 feet in height. There high masts were made necessary in order to furnish sufficient pitch to their incline cable ways. By reason of these yast improvements the output of the Penlan Slate Co., will be greatly in-cr ased. They report an excellent business with brightest outlook for the present season.



## The National Cut Stone Contractors' Association.

Meets Semi-Annually Robert E. Harrsch, Chicago, III...... . President P. B. Parker, New York City, leorge Dugan, Bedford, ind... Henry Struble, Chicago, III.... First Vice President becond Vice President Secretary-Treasurer

### Official Organ, ROCK PRODUCTS.

## Fire Tests for Building Stones.

The New York State Education Department has just issued an interesting bulletin, No. 100, New Yo k Sta'e Museum, which contains information on the subject of fire tests of building stones in the subj This volume was gotten out by E. McCourt, which was transmitted to the above department.

Among the varieties of stone tested were granite, diabase, norite, gneiss, randstone, lim:stone, an i



THE MAN FROM ST. JO. CHAS. A. PFEIFFER, ST. JOSEPH, MO.

marble from a large number of different quarries. Observations were also made of the effects of fire and water, as developed by some of the recent large fires, showing views of the buildings and the conditions in which they were left by the

In a general way Mr. McCourt says

"It wou d seem that the more compact and har l er the stone the better it will resist extreme heat In a general way the greater the absorption, the greater the effect of the heat. A ver porces and s one will be reduced to sand, and a stone in which the cement is largely limonite or clay will suffer more than one held together by silica or lime car-

"Limestone up to the point where calcination begins is little injured, but above that point it fails badly owing to the crumbling cause! by the flaking of the quicklime. And the purer the limestone the more it will crumble. Marble behaves about the same as limestone; but because of the coarseness of the texture also crarks considerably. Both limestone and marble on suiden cooling seem to flake off less than on slow cooling.

'Outside of the intense heat, the limes ones would act best, while the other stones would te affected in this order: sandstone, granite and mar-If the heat does not exceed 1,000 degrees

Fahrenheit, all the stones will stand up very well, but at the temperature which is probable in a con-itagration, the finer grained and more compact the stone, and the simpler in mineralogic com-position the better will it resist the effect of the extreme heat.

The order of the refractoriness of the New York stones which were tested might be placed as: sandstone, fine grained granite. Limestone, coarse

grained granite, gnelss and marble.

"Granite sometimes behaves badly on cooling rapidly. Sandstones under fierce heat are liable. for enough to weaken the structure materially. Gnelss, especially if coarse grained and mu h banded, is apt to suffer badly. At high heat, 1,500 and over, the granites cracked badly and irregularly, such cracking tending to weaken the structure, this tendency increasing as the structure of the stone is coarser grained."

### Extreme Dullness Reported.

By way of comparison with reference to the stone industry, the report comes from England that the past year has been one of exceptional duliness in the building line. Not in twenty years has the stone industry shown such a deplorable demand. According to prominent operato s the year 1905 was the worst ever experienced and the prospect is not much more flattering. No large contracts were made, and the quarry opera-tors have not worked their quarries for some time, on account of being overstocked. The plices are When we consider our own prosperity in build

ing operations, particularly the enormously large demand for cut stone, it seems improbable that another country should find conditions so differen In the face of the numerous other materials stone is still the most popular where structures of a fine and imposing character are desired.

The above state of affairs regarding the foreign market is the best evidence that our country is in a most prosperous state. Building operation: always a thermometer to show of the country's prosperity, particularly when structures of a high class are erected in her o numbers. The future is still encouraging and cut stone operators will continue to enjoy these conditions.

## Obtains Nice Stone Contract.

CONNELLSVILLE, PA., March 29.—A nice contract has just been award d the Pittsburg Art St ne C., of this city. This order includes the furnishing of all the cut stone to be used in the erection of the new Regular Baptist church, of Oakland, Pa. The contract calls for \$10,000.00 wo th of stone. This, with other large orders, will keep the plant busy for many months. The repot of Manager C. L. Edmonds is to the effect that they now have a large force employed, which will soon be increased. This will be made necessar, so that they can take care of their obligations in time.

## Some Natable Improvements.

The Peter & Burghard Stone Co., of Louisville, Ky., report everything moving along satisfactorily. Our representative found them as bus/as bees getting ready to install their new machinery which will consist in part of one 300 H. P. Corliss engine and water tube boiler, one thirty ton electric traveling crane, New Albany Manufacturing Co., and 425 foot tramway, planer 8½ wide by 14 long, W. D. Meyers, diamond saw, ele tric generator 250 H. P., motors, etc., from Jas. Cark, Jr., & Co., Louisville, Ky.

They are working on the foundation for their They are working on the foundation for their boiler and engine house which will cover a space 50x150, and are pushing the work so as to have all complete within sixty days. Making these improvements will not interfere with their many orders and contracts they have on hand, as the old plant will be operated up to the day the new plant is completed.

plant is completed.

They report having had a very good trade last year and their business has increased to such an extent they are compelled to increase their ca asity in order to take care of their contracts. Among the interest contracts are of their contracts. Among their latest contracts are the government buildings at Amesbury, Mass., Lebanon, Pa., and Allentown, Pa., shops and round-house for the L. & N. R. R. at Etowah, Tenn., besides a number of other

They are ve y much encouraged over the outlook and expect a good demand the coming ye r, and with the above improvements completed will he able to take care of the largest contracts.

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## FORMAL OPENING.

(Continued from Page 3.)

The following is a continuation of the item begun on page three in which the cut stone plant of the Schutten & Fallon Co., Ltd., of New Orleans, is described:

Schutten & Fallon have their own designers, and sculptors for monumental and cemetery work, there being a separate department for this branch of the business.

Mr. H. T. O'Connor has general supervision of the plant. To him and Mr. Chas. Schutten, who promoted the idea of sawing and finishing stone and marble in New Orleans, is due much of the success of the undertaking. Mr. B. A. Schroeder, New Orleans manager of the Crocker Wheeler Co. rendering untiring assistance, in the adjustment of their motors, to the different machines, with the result that although the machines were at first designed for belt drives, they are running perfectly, and with ma ked economy in every depart-

The firm has been crowded with work, finding new markets every week, outside New Orleans, in Alabama, Mississippi, Texas and South Amerin Alabama, Mississippi, Texas and South America. The principal stockholders are John J. Schutten, president; John H. Fallon, vice president; H. T. O'Connor, secretary and treasurer. Adam Wagatha, and Chas. Schutten, directors. The company has ample capital behin i it, and in the first six months since its organization has found an opening for successful operations in the cut stone line, even beyond the original calculations.

## Everything Looks Encouraging.

WEST SUPERIOR, WIS., March 29.—The Penn Stone Co., writes us:

We are just starting up our yard for the seas n. have work enough on hand to start with to keep us busy for a couple of months, and the outlook is very satisfactory; looks as if we shall be rushed.'

Ship a Carload of Cut Granite a Day.

FAITH, N. C., March 23.—John T. Wyatt and Co., write us as follows: "We have more orders on hand now for granite work than we have ever had at one time. We were the lowest bidders and were awarded the contract for the Carnegie Library now being erected at Livingston College in Salisbury, and we are now delivering. College in Salisbury, and we are now delivering

"We have up thirteen derricks and are making carload shipments daily of cut granite. A large force of granite cutters have been kept busy all of the time. We have the finest granite in the South for curbing, paving blocks and all kinds of building stone, cemetery curbing bases and

The Bloomington Cut Stone Co. of Blo mington Ind., has just been organized. The company will quarry, mine and cut stone. The capital stock is \$25,000.00, and the incorporators are: Water S. Bradfute, W. T. Blair, Harry B. Gentry and Chas. anzmann.

The North Dayton Stone Co.. of Dayton, Ohlo, has been incorporated. The capital stock is \$50,000.00. Those interested are: J. S. McMahon, John Sprigg, Jo2 Goldberger, H. H. Moss and J. D. Moskorvitz

The Forest City Stone Co., of Rockingham, enn., has been organized with a capital stock of \$300,000.00.

The Maddox-Eastburn Stone Co., of Mobi'e, Ala. has been incorporated with a capital stock of \$7,500.00, of which \$6,100.00 is paid up. Elmer Madox, William F. Eastburn, Manuel Canizas and Anthony Balladores are the incorporators.

The Champlain Stone Co., has been incorporated with a stock of \$20,000.00 at Sandy Hill, N. Y. The directors are: James E. Flood, James D. Sherrill and Norman T. Drake.

The Hancock Stone Co., of Findlay, Ohio, has been organized with a capital stock of \$30,000.00. John F. Pogue, W. H. Loy, John B. Shafer, R. W. Moon and W. F. Hosler are the incorporators.

The Pennsylvania Sand and Stone Co., of Pittsburg, Pa., has been organized to manufacture and deal in sandstone, limestone, carve stone and refine sand. The capital stock is \$300,000.00.

The John H. Scully Bluestone Co., of New York, N. Y., has been organized. Capital stock, \$10.000.00. J. H. Scully, G. E. Koche, J. J. Egan are

In Need of a System.

We have received the following communication from a subscriber

You might find out for the benefit of the cut tou might and out for the benefit of the cut stone trade, what the best system is of finding the cost of the finished production. The majority of the men working in the business are still working under the old fashioned methods, and if at the end of the year their books show a balance on the right side, that is the profits on the other side is the loss. But wet he has no means of knowing. is the loss. But yet he has no means of knowing how this has been brought about, which job was gotten out at a profit, or which at a loss In othe words, what is the best check on costs from the rough stone put in the yards to the time it is in the building finishe? Who uses the best systems in the different departments to find this out?

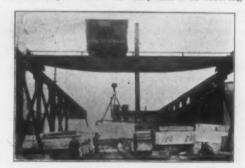
"Questions put to the trade might produce some very interesting answers. A magazine published in Chicago called "System" has some useful articles, but nothing relating to the stone cutt ng It is an entirely different proposition to the usual

factory or foundry work.

"We hope this will be of interest to you, and if you have the space in your next issue, grant it a few lines, trusting it will serve a useful purpose."

## To Develop the Best Cost System.

ROCK PRODUCTS has invited a number of the leading cut stone contractors of the country to contribute an article upon the best method of arriving at the cost in the stone working business.
The suggestion has come to the editor by a number of inquiries from parties who are dissatisfied in their present method of keeping costs, which is naturally the basis of computation in arriving



TRAVELER IN OPERATION AT SCHUTTEN & FALLON'S PLANT, NEW ORLEANS, LA.

or the figures of any set of proposals, either great or small. The following are some of the reports which have been received, and by request the names of the writers have been omitted because they do not wish to be annoyed with further ques-tioning, although glad to assist their trade paper ia doing something for the uplifting of the trade

One concern says: "Our system of arriving at the price of finished cut stone in our plant is to divide each feature of the business under the sev cral topics that are suggested by the progress of the work, as follows, to wit: Value of stone in the rough, time on the planer or banker, hauling and handling, cost attached to setting, cost of waste of every description, and last, but not least by any means, a reasonable percentage of profit added. Without going into any details, this is the general system under which we proceed to arrive at the price of work when estimating a job and the same system is used as the work proceeds and we find



OF WATER IN THE LENS OF A CAMERA DID TO PICTURE OF GANG SAWS IN A BIG BEDFORD PLANT.

that in most cases our calculation in the first place is very close to the result which actually ap

Onother party writes: "In the matter of following up the costs in our cut stone establishment, will say that the system we now use is entirely different from that we employed prior to the in different from that we employed prior to the in-stallation of machinery. When we cut our work by hand, we had ordinary slips with blanks for the name of the cutter and for the time of bank-ering and completion of the stone with an additional line for the number and letter of the course corresponding to the letter and number of that on

the working plans."

"The method now in use varies from the above in adding to the blank several lines for machine work, making a separate item of setting in and jointing by the cutter. We follow this arrangement up by charging the cost of cartage, the cost of setting the stone at the building, which divided by the amount of stone weed gives the cost. the cost of setting the stone at the building, which divided by the amount of stone used, gives the cost per cubic foot. We also ascertain our cost for sawing stone in this same way. Of course, we can not nor do we attempt to get the actual cost of each job as it is impossible, when several jobs are on the way at one time, to apportion to each job its share of the general or incidental expense incurred in the operation of the plant, which is the aggregate amount composed of such items as common labor, expense of operating machinery, rent, and the many items that enter into the prorent, and the many items that enter into the prorent, and the many items that enter into the production of cut stone, but we do approximate as nearly as possible what share of this amount should be charged to each job so that in a general way, we know this cost and apply this knowledge every time we are called upon to make an esti-

There is an element which enters into this business which is extremely hard to calculate. The plans and specifications are capable of inter-The plans and specifications are capable of interpretation from so many view points that one man figures on fulfilling them to the letter while another will cast his shifty eyes over the job with every nerve alert to see where he can skin the work. Still another will quietly abide his time, size up the general contractor's bidding on the entire work, then, with unerring precision, select the one whose cupidity will permit him to violate the confidence reposed in him by the honest bidder by giving the lowest bid away. Thus, enabling this diplomatic man to underbid his competitors while he makes it financially interesting to the other fellow."

other fellow."

A stone man in the West said: "While in the strict sense we are not in the stone cutting business, we have a cost system whereby we get results and know what each contract, as well as ev-ery portion of the work, costs us. Our system divides the operations under two general items, viz: first, productive labor, and material entering into the order; second, non-productive labor and all expense not comprising any part of the material entering into the order. Each order or ecntract is given a serial number. If a particular centract is given a serial number. It a particular class of labor is desired, we subdivide again, using letters, 1005 A or 1005 B, etc. Each portion is charged with its respective labor cost or wages, also, the requisite material. Upon completion, we have wage and material cost. To this we add, destribution or shop and office expense which indistribution or shop and office expense which in-clude all the incidental expenses (salaries, and such items as are not directly a part of the con-tract itself) and this group of expenses is arrived at under the following topics: salaries, taxes, insurance, postage, power, miscellaneous material, tool repairs, maintenance of office, plant and machines, and this goes to make up the lump item that we call "shop distribution." All the expense of these two general items are proportioned or determined as follows, monthly, thus, if the total wages are \$1,000.00 and the total shop distribution \$1,000.00, to each \$1,00 of productive labor we add \$1.00 of shop distribution making the acwe add \$1.00 or snop distribution making the uctual cost of work \$2.00, plus material charged against the order. This is a rough outline of our method which contains quite a number of variations or rather details. We are certain of results and find not only satisfaction but that some such system is absolutely necessary. It is our opinion that if the subject of cost taking would be given more attention by cut stone men generally the results would more than warrant the expense of the clerical help.'

The Freeport Granite Quarry Co. has been organized at Portland, Maine, for the purpose of quarrying, cutting and dealing in granite with a \$10,000.00 capitalization. The officers are president, Alfred King; treasurer, William S. Chapman, both of Portland. The Freeport Granite Quarry Co. has been or

## Marhle

### TENNESSEE MARBLE.

A Fine Quality of Stone Which Readily Finds a Place in Some of the World's Most Beautiful Structures.

## LARGE AMOUNT OF IT EXPORTED.

Although the state of Tennessee is far fanied for its coal, iron and timber industries the quarrying of marble is due a no less prominent position among the things of which she boasts. Knoxville is the cen-ter of the marble section of the state and no less than fifteen firms are engaged in and around this city in quarrying and shipping this excel-lent material, which finds its way into buildings all over the civilized world.

Tennessee marble was used for monumental purposes as early as the beginning of the last century although its introduction into building and decorative world was of a much later date. vast amount of the material stored in nature's bosom here can more easily be imagined when it is said that over 170 miles of roads in Knox county are made of the stone, that railroads use it freely for hallast and that it is used extenin building abutments, culverts, etc., all

over this section.

The deposits of marble prevail generouly throughout Blount and Hawkins countles, but the strata lying in Knox county narest to Knoxvi le is the most extensively developed. This strata runs northeast and southwest in var,ing width and practically unknown depth. The same strata shows itself in the mountains of Vermont and appears and disappears through the entire Appalachian range, showing itself in Maryland, Geo:gia and Alabama.

## The Marble in Famous Structures.

Three of the large quarries are located only six miles from the city of Knoxville and from these have come immense amounts of the stone which has been shipped to various places throughout the world. The large blocks designed by French for the New York custom house, which weighed from thirty to forty tons each, were produced from one of these quarries. So large were these blocks that special derrick ma hinery was necessary to handle them while their enor-mous weight forbade the shipment of them in the From another one came vast amounts decorative marble, used in the c nstruction of the Congressional Library at Washington, and also the stone used in the construction of the Empire state's capital building at Albany.
For interior decorative work the quality and

color of this marble is hard to excell as it can be procured in gray, light and dark pink and other beautiful shades. Especially notable instances of its use for this purpose is seen in the J. Pierpont Morg n Private Librar, and the tandsome residence of Senator Clark in New and the York, where the most artistic results are ob-

The exportation of Tennessee marble is a matter of common occurrence. Not more than a wear ago thirty-two car loads of it was shipped to Honoluu, to be used in the building of the Youngs Hotel. All over America the quality of the marble is well known by builders and ar hitects as evidenced by the recent shipment of 144 cars of it to be used in the building of the Bank of Montreal in Canada.

The out ook in this field for the present season is very bright and the quarries and mills of the Tennessee marble men are busily engaged in mining and preparing marble for the world's

The Shawnce Marble Works is a new com pany recently organized at Shawnee, Okla. S. Carahan is head of the firm.

### Marble for Interior Decoration.

Fifty years ago the use of marble for in erior decorative purposes in the construction of both public and private buildings was practically unknown while it is safe to predict that in the same period of time from this date the absence of this decorative feature in structures of hand-some architectural design will indeed be a ra-No industry connected with the build ng trades has flourished to a greater extent during the past few years than this most important business of furnishing marble for the final adornment of beautiful edifices.

The substantiality of marble, its richness of texture and its beautiful coloring make it to most desirable material through which to express the original ideas of the designer, and the varying colors which can be obtained from a se-lection of over 100 kinds of marble allow full scope for the imagination for securing most fantastic and extraordinary effects. In fact it hilds such a precedence in this line that it is difficult to find a building of note constructed in later years into which marble has not found a very

prominent place.
A great draw-back in the use of martle, until the introduction of modern methods, such as the wire saw, has been the time taken for its workwire saw, has been the time taken for its working and delivery. Colored marbles have not been stocked to any great extent and many contracts have called for blocks of odd sizes, which necessitate special quarying. Now, will the ever i-creasing improvements in the methods of sawing and cutting marble, monolith columns, pilasters, and large panels are specially cut into shape and large panels are speedily cut into shape and no time is lost waiting upon s'ow metho is. These facilities have done much to further the interest of the decorative marble trade. Every indication points to the growth and continuation of the great popularity of marble for the fi ising touches which make our buildings attractive.

### A Marble Discovery in Minresota.

ST. PETER, MINN., March 25.-The vein of marble which was lately discovered at the Kasota stone quarries comprising more than 300 acres of the purest stone, will be developed by the Ka-Four feet of the marble is deposited in a vein which lies far below the present ings of the quarries and the expense of remov-ing the top ledges in order to reach the marble will doubtless be great. The marble is the fam-ous "pink and yellow" so well known b/ archtects and builders, and is said to rival in quality and attractiveness the Tennessee stone.

## To Develop Onyx Mines.

WAUZEKA, WIS., March 10.—A stock company has been formed to mine onyx, which has been found in great quantities and high grade, in what is known as the Lathrop cave near this place, not far from Prairie du Chien. The stone is said by the geological department at Wishington, to be of the finest in the country. Hinry Evans, a farmer, made the discovery two years ago and holds a lease on the lands on which the ledge was discovered. Investigations have shown immense quantities easily mined. At a meet'n; he'd in Boscobel officers were e'ected and preliminary arrangements made to begin work next

## Will Open Quarry in Marble City.

MARBLE CITY, I. T., March 27.—Mr. J. A. Wat-Duluth, Minn., has purchased sixty acres of mar-ble land here for the purpose of opening a quar-ry in the near future. The price paid for the y in the near future. The price paid for the and was \$7,000.00. Mr. Watterworth expresses the intention of erecting a modern and well equipped

## Deposit of Marble Found.

STAFFORD, ARIZ., March 17 .- A large deposit of stafford, Ariz., March 11.—A large deposit of marble of splendid quality has been discovered in the Graham mountains near here by O. W. Banta, of this city. The stone is said to be of attractive color and capable of taking an excel-

The Baroko Marble Co. has been incorporated with capital stock of \$50,000.00, and will enter business at Hartford. Conn. The incorporators are Thomas Malcom, Andrew J. Broughel and Warren D. Chase.

#### A Pulpit of Marble.

CHICAGO, ILL., April 2.—A marble pu'pit cosing \$5,000.00 has been presented to the Cathedral of the Holy Name, by the young women of the congregation. The pulpit is to be built of the Action. The pulpit is to ation. The pulpit is to Cararra marble, and will finest specimens of the finest specimens of the On wil be one the sculptor's curest art to be seen in this county. It will be eight feet high. On the pul-p't proper will be four figures of the evangelis's. count y. each two feet in height, and at the base of the steps will be two figures of angels. The columns will be of onyx, and the ten ranels with sur ound the pulpit will be of rich Venetan mosaic. The marble of the base of the pulpit was obtained from the Pyrenees mountains, and is of rich rose coloring. A gold sounding board will surmount the pulpit.

### Plenty of Business Here.

RUTLAND, VT., March 10 .- The Columbian Marble Quarrying Co, of this city is now working its mill to the fullest capacity in order to finish three large contracts in addition to the regular output of smaller work. Material for the Ohio building at the American University, Washington, D. C., and the Phipps office building, Pittsburg, Pa, is being turned out in large quantities and it is expected that the contracts will be fulfilled within 60 days. Work has just commented on a contract for the interior marble work for the \$1,000,000 Pike hotel at Cincinnati. The Washington and Pittsburg contracts amount to about

## Opening Marble Quarries in Idaho.

HANSEN, IDAHO, March 15 .- John F. Harsen and Son have an expert from Colorado opening up their marble quarry adjacent to this place. It is said that the stone equals that of Colorado. A great deal of the stone will be usel locally.

### Marble Company Mortgaged.

COLVILLE, WASH., March 14 .- A deed of trust, supplemented by a mortgage, was filed yesterday in the office of the county auditor here, in which the Verde-Antique Marble company, of Spokane, is named as grantor and mortgagor, and the is named as grantor and mortgagor, and the Farmers and Mechanics' bank, of Spokane is the grante and mortgagee. The purpose of the transfer, as indicated by the two instruments, is to guarantee an issue by the Verde-Antique Marble company of 15 year 6 per cent gold bonds in the sum of \$40,000.

## Marble Plant Being Constructed.

TACOMA, WASH., March 22.—It is expected that within 70 days work will has been completed on that \$200,000.00 has been expended in developing the quarries of the company which are located on Prince of Wales Island. The shipment of rough stone from the quarries will begin on April 5.

## To Build a Large Mill.

RUTLAND, VT., March 23.—The Vermont Ma blecompany is drawing lumber for erection of a new marble mill at Whipple Hollow, adjoining their Albertson mill. The mill will be 150 by 100 feet and will cost about \$50,000.00. It will have will cost about \$50,000.00. 12 marble sawing gangs and several rub'ing beds. The concern will install in connection with the mill a traveling cane of 25 tons capacity on a track 1100 feet long.

## Notes From the Marble Field.

The Tygarts Valley Marble Works has been organized at Philippi, O., with a capital of \$5,000.00. The incorporators are C. M. Bryrer, E'moni Wh'tehair, S. H. Talbott and Henry H. Bryrer, of Philippi; W. M. and C. A. Miller, of Terra Alta.

In the vicinity of Cuernavaca, state of More-In the vicinity of Cuernavaca, state of Morelos, Mex., the well known winter resort of the Americans living in Mexico City, an Aztec onyx quarry has been rediscovered by Carl Lud off, a geo ogist living near that place. The quarry has not been used for hundreds of years. It is partly filled up and grown over by brush and grass.

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## Granite.

### BARRE, VERMONT.

Barre, Vr., March 25.—Business in Barre is fully fifty per cent better this month than it was last month. In fact, orders are almost too plentiful, coming as they do so late in the season for rush delivery. Nearly every manufacturer in delivery. rush delivery. Nearly every manufacturer in this vicinity has the same complaint, that orders were very scarce during January and February, and that the work has all piled in at the last moment for May delivery. This in many cases is a physical impossibility, notwithstanding the great facilities there are in Barre for turning out monuments. Probably in many cases the dealers have done the best they could to get their orders in have done the best they could to get their orders in early, but it is equally true that the human weakness which causes all men to put off until tomor-row that which might be done to-day, will cause many dealers and their customers considerable disappointment this spring. It is the same old story every year, but it is told more forcibly this year in Barre than it has been for a long time in the past. Mr. Dealer, please get the hurry up habit, and be sure the manufacturer will keep up his end of the load.

#### Some Business Opportunities.

The D. A. Perry Real Estate Agency of Barre has just had placed in its hands for sale, a retail monument plant that will be a good opportunity for some practical man. The business is a good one and the plant is new and up-to-date. The owner has conducted the business for many years and wishes to retire. Particulars can be learned by writing to the Perry Real Estate Agency.

There is a good quarry opportunity for some monumental man with capital of moderate extent. Information can be had about this by correspondence with the New England office of ROCK PRODUCTS, 16 Merchant Street, Barre, Vt.

UCTS, 16 Merchant Street, Barre, Vt.
Whitcomb Bros. have just equipped the quarry
of E. A. Brown and associates with a new 60 h. p.
boiler and a 30-ton hoister. The company has
also installed a new Sullivan air compressor and
will have a very up-to-date equipment for the
spring work. This company has recently purchased the property known as the James Brown
quarry and also a tract of land adjoining the Littlejohn & Milne quarry which also adjoins the
Brown quarry. The company will be incorporated
before the next issue of Rock Products, when
more definite information will be given in regard
to the transaction. to the transaction.

to the transaction.

W. M. Fraser, of the Granite Construction Co., returned about the middle of the month from a six weeks' trip to Dakota and other Western places. He was taken dangerously ill shortly after his return but is recovering now.

J. B. Magnaghi has just returned from a business as the New York and reports business as

ness trip to New York and reports business as very good, with all the work they can take care of in the shed.

## Everybody Busy.

Chas. Bianchi & Sons have a lot of carved work under the hammer and more orders than they ex-pected this spring. This immense plant is run-

pected this spring. This immense plant is running to its full capacity at the present time.

Moore Bros. & Brault are running three full gangs of men and contemplate increasing the force soon. They are just now shipping their big-soldiers' monument to Lewiston, Pa., and will set it up themselves. The work will be under the supervision of William Moore, of this firm, and Matt Notes. pervision of William Moore, of this firm, and Matt Haley, the well known expert monument setter. It will be quite a bit of monumental engineering to get the mammoth structure on to its final resting place. Among other things it will take two derrick sticks each 80 feet in height, and there has been considerable difficulty in getting these, but they have finally decided to use spliced sticks. The firm has been receiving more orders than they could attend to, but before April 1, they will have greatly increased their facilities with a new air compressor and an additional surfacing machine so that they can meet all comers.

Canton Bros. have just taken orders for two big mausoleums for spring delivery, and they have

enough other big work to keep their plant and

force of workmen very busy. Stephen & Gerrard have their hands full just now putting in several important parts of new equipment and also filling a large number of orders for spring delivery.

At the plant of A. Anderson & Son, the brothers be happy with an office full of orders and a yard full of stock. They have had a very prosperous

year and it is still keeping up.

L. G. Rizzi has been looking for small carved
work since he purchased Young Bros.' plant and
has got a lot of that class under the hammer at

#### Unreasonable Demand.

C. W. McMillan & Son, who reported business rather slack a month ago, have been receiving within the past two weeks a super-abundance of rush orders, and in many cases the demands for shipment before the first of May were quite un-reasonable. They have a fine line of work of ordinary size in polished and hammer-ed designs with a fair amount of carving. They are also cutting several spire monuments which average about 20 ft. to each spire Mr. McMillan says there seems to be a sort of re maissance of the demand for this style of monu-mental structure, and as he says, there is nothing more graceful in this line than a well designed spire monument. The dignity, solemnity, simplic-ity and grace are all there.



DUPLICATE OF NAPOLEON BONAPARTE'S MONUMENT, ERECTED AT CINCINNATI, OHIO, BY E. ABBIATTI & BBO., BARRE, VT.

Rizzi Bros. are well advanced with the beautiful work described last month. A new one they work on is equally attractive with any the others. It is a large rock face monument with a band near the base hammered with rustic raised letters. The face of the monument bears a cross in bas relief, and on the base of the latter is carved a stem of lilies. The latter is as delicate a piece of granite as has been seen in Barre in a long time. The lilies are cut in very high relief.

Unfortunate Accident.
There was a sad accident this month at the Woodbury Granite Co.'s quarry in Woodbury when Allen Nourse, a young quarryman, was instantly A stone weighing 200 pounds was stepped upon by a man at the top of the ledge. It rolled down and struck the boy on the head, killing him instantly. The ledge at this point of the quarry is very high, and the boy stood at the bottom

Local granite manufacturers ways and means of causing the new public library, which is about to be erected here, to be constructed entirely of Barre granite, and there is probably ro doubt that the project will be carried through.

New Patent Corundum Wheel.

Littlejohn & Milne have just established in their cutting plant a patent corundum wheel for grinding purposes. The wheel is manufactured by the Pike Manufacturing Co., of Pike, N. H., and it is claimed it will do the work of several of the old stones in the same time, and that the work will be done better. The wheel is made of corundum and is arranged with a tank under the wheel from which water is drawn by means of a

pump, which is a part of the machine, and a steady dripping of water is kept playing on to the stone. The wheel is not much larger than an old fash-ioned hand grindstone, but it is said that one which was installed at the E. B. Ellis plant in North-field some time ago wore for five months, and then was replaced at a reasonable figure. The wheel at the Ellis plant was the first one to be tried in a granite shed, and the one at Littlejohn & Milne's is the first one in Barre. It is attracting considerable attention and it is probable that if it gives as good satisfaction as it appears to, there will be many of them installed by the other firms in town. The wheel is run by an arrangement whereby the machine is turned down by an attachment which simply has to be tightened. This is a saving to the fingers of the man operating it.

The Union Soapstone Co., of Chester, Vt., who have been considering the purchase of the soapstone quarries in Athens, Vt., have leased a farm in Athens where evidences of the stone were found in great abundance last fall. Work on erecting suitable buildings and equipment will be begun at once and as soon as the ground thaws out the quarrying will be started. It is proposed to haul the stone to Chester by teams, where the company has a large manufacturing plant.

company has a large manufacturing plant. The stone will be made into tubs, sinks, etc.

C. W. Averill & Co., of Barre, have purchased the business and stock of the Barre Supply Co., and have retained Arthur J. Cave, of the Barre Supply Co., as manager of the mill and quarry department of their hardware business. This change also includes the agency for the Sullivan. department of their hardware business. This change also includes the agency for the Sullivan Machine Co., in this vicinity. They have recently sold to McDonald & Buchan a new Sullivan air compressor, and another one to J. Jurras & Co., of Montpelier. The latter machine is a 10x12.

J. Jurras & Co., of Montpelier, are building a new shed which will be ready for occupancy this spring. It will contain all modern equipment, including a Sullivan air compressor.

cluding a Sullivan air compressor.

### New Firm Started.

E. C. French, a veteran granite manufacturer of Barre, but for the past few years engaged in other business, has, together with his son-in-law, Rollin F. Forbes, purchased the plant, stock and patent rights of F. A. Spaulding & Co., of Northfield. Mr. Forbes is a competent machinist in the

field. Mr. Forbes is a competent machinist in the stone trade and has for several years been in the employ of W. A. Lane and also F. E. Kinney, of Barre. The new firm will be known as R. F. Forbes & Co., and they will continue the business of manufacturing and repairing stone machinery.

A. J. Langfeld, the paving and quarry owner contractor, had the misfortune to break his right leg recently while at work at his quarry on the Websterville side of the Barre quarries. Mr. Langfeld had just set a blast in a ledge and had started to run down a path out of the way of the stone which might fly when the charge exploded. A which might fly when the charge exploded. A stone above the path on a steep side hill had become loosened and it rolled down. Mr. Langfeld, not seeing it in time to dodge, was struck by it on the knee and his leg broken twice between the knee and the ankle.

H. Bailey and Claude Rollins, of Hardwick, have formed a partnership and are to do a general granite manufacturing business at Hardwick. The firm contemplates the erection of a new shed near the tracks of the Hardwick and Woodbury railroad in the spring. They have already put up

railroad in the spring. They have already put up a temporary plant.

Thomas W. Eagan, of Montpelier, who formerly conducted the Capital Granite Co. and who later embarked in the lumber business, has filed a petition in bankruptcy. His liabilities are \$17,966.86. Of this amount \$6.332.03 is secured, \$11,414.83 is unsecured and \$220.00 due in wages. Mr. Eagan presents assets of \$8,795.47, of which he claims \$1,038.00 as exempt. The failure he attributes to a disastrous fire at his lumber mill. It will be recalled also that his big granite plant at Montpelier was burned to the ground a little over a year ago, and the land bought later by G.

Exempt From Taxation.
At a recent city meeting of the voters in Mont-At a recent city meeting of the voters in Mont-peller it was voted to exempt from taxation for a period of five years, the following granite firms: The Globe Granite Co., the G. R. Bianchi Granite Co., and F. J. Robar & Co. These firms have within the past year either purchased new gran-

the cutting plants or erected new ones. The latter being the case with the Bianchi company. Alderman Frank H. Burke, of Burke Bros., was elected president of the board of aldermen for the city of Barre at the first meeting of the board after the recent election.

#### William Barclay Reelected Mayor

Mayor William Barclay was re-elected chief executive of the city at the recent election by a very majority over John J. McKenzie, the labor candidate.

Barre and Montpelier will both be prohibition

Barre and Montpeller will both be prombition towns during the coming year. This may not be strictly granite news but it surely interests the average granite man up this way.

The E. B. Ellis Granite Co., of Bethel, has secured the contract for furnishing the granite for a residence to be built this season by C. R. Congdom williams lawyer of Duluth. don, a millionaire lawyer of Duluth. The residence will be a marvel of architecture. The contract must be completed by December 1. This will furnish labor for the entire force employed by the company, both at Bethel and Northfield. for about three months

### Granite Cutters From Scotland.

According to a report recently received here, 150 granite cutters have left Scotland for Barre owing to the dull times and scarcity of work in owing to the dull times and scarcity of work in Scotland, and they are expected to reach here in a few days. The whole number will not settle here permanently but will probably scatter to

other places in this vicinity, except such of them as can find work in Barre.

Fifty acres of the W. Z. Pratt farm in Williamstown, just beyond the Barre town line, has been purchased by C. F. and C. E. Lowe, of Montpelier, at a consideration of \$3,000.00. They expect to uncover a valuable dark Barre granite quarry inasmuch as the Greason & Beckett Co. opened a quarry on the same farm, and the Jones Bros. Co. quarry is located near by. The Messrs. Lowe are to clear six acres of the property at once and put in a temporary quarry equipment for investiga-tion as to the quality and extent of the granite, after which they will probably put in a first class

permanent equipment.

George Findlater, of the granite firm of Phillips, Findlater & Co., was recently married to

iss Mamie McAuley, of Barre. In a recent issue of Leslie's Weekly appeared an illustration of a beautiful monument that was cut some time ago by E. Abbiatti & Bros. It is the Bowen monument in Cincinnati, and is a duof the monument to Napoleon Bonaparte The photograph was published as one Paris. of the prizes in a photographic contest.

Montpeller Elects Mr. Haley Mayor.

The voters of the city of Montpelier showed their good judgment at the recent election, when, by a unanimous ballot, they chose James S. Ha-ley, of the well known granite firm of Dillon & Haley, as mayor of the Capital City. Mayor Ha-ley has been one of the most successful of the granite manufacturers and is very popular, both in business and social circles. For the past four years he has been an efficient alderman and has repeatedly been urged to become a candidate for the mayoralty. Mr. Haley is a native of Frank-fort, Me., where he was born in 1857. He came to Barre twenty-four years ago, learned the granthe cutter's trade, and in 1889 went to Montpeller to reside. In 1892 he formed a partnership with John W. Dillon, and the granite firm of Dillon & Haley is one of the leaders to-day. Mr. Haley is a Catholic, a member of the Knights of Columbus, the Elks, and the Apollo Club, the leading social organization of the city.

Vermont is getting its winter all right but it

came on the wrong end this year.

Magnificent Soldier Monument

Young Bros, are just completing a large soldiers' monument, nearly as elaborate as the one that is being cut by Moore Bros. & Brault, for Lewiston, Pa. It is just the same height, rising 65 feet from the ground. It is to be dedicated at Red Bank, N. J., on June 23, for which great prepara-tions are being made by the citizens of that town The bottom base is 24 feet square and the monu-ment contains a lot of carving, including a status of a soldier which surmounts it. The monumen will be set up under the direction of Young Bros. who have employed Matt Haley to superintend i The monument and the same derrick machinery will be used as for the one at Lewiston, after the latter one is set

Jones Bros. Make Improvements.

The Jones Bros. Co. have just installed a new parallel motion attachment to one of their gang saws, and find they are able to cut four and one-half inches per hour with each of the four blades. where they were cutting a little over one inch per hour with their swing gang motion. The firm is greatly pleased with the arrangement, and expect to make similar alterations on their other

The Smith Bros. Granite Co. have a lot of Me morial Day work in hand and some splendid or dets in prospect for the summer. They have just finished one fine manusoleum and are now com-mencing on one of the most elaborate vaults they have ever cut. They are also cutting a duplicate of the famous John Sherman monument. A unique bit of lettering is being produced by this firm on a large sarcophagus monument. There is heavy carving around the top and on the front There are square raised letters with a groove about three-eighths of an inch wide running through the center of each. This style has seldom, if been cut in Barre and it gives a very artistic ap-pearance on hammered letters. It would also make a very tasteful design with polished letters.

Parry & Jones are refusing to take any more work for Memorial Day and have booked a number of orders for summer delivery. They are now cutting another duplicate of the Harrison monument and a large monument with a 9x6 base. There are three bases with carved cap and pilaster die heavily carved. A large carved vase on a pedestal is being cut by them for the same lot. Parry & Jones have more men at work now than ever before, and this means a considerable growth of their business, considering that they have one more surface cutting machine than formerly.

L. J. Bolster is considering the installation of a new air compressor for the benefit of the tenin his circle of sheds.

Andrew Barclay expects to put in a new air compressor this spring for which power will be furnished from the L. J. Bolster plant.

#### Installed Another Large Derrick.

E. L. Smith & Co. have just installed another large derrick at their quarries, making in all nine boom derricks in use there. This quarry is one of the largest granite quarries in America. One of the firm stated a few days ago in regard to their cutting business that they had figured on more soldiers' monuments during the past few months than ever before in the history of the

The Barre White Granite Co. is making arrange ments to open up for spring business month, and are looking for orders from the build-

Novelli & Calcagni are cutting the most beautiful cross that has ever been cut in Barre granite. It is 18 feet long and the style is Grecian. The entire structure is a mass of unusually heavy carving in traced design. They are also cutting a duplicate of the McKinley monument. They have at present five statues under the hammer. One of them is in high relief on a boulder 7x4x11. The firm report that they never had as much work before as they have now,

## More Than Double.

The Eclat Granite Co. are going into a period of prosperity that is quite remarkable. Since the become the successors of McDonald, Cutler & Co. Since they they are running more than double the number of men that they ever employed before, and are still looking for more good cutters to add to the force. There has also taken place within a few days a change in the firm that will be of great benefit to it. Alderman B. Albisetti has purchased a one-third interest in the concern and b an equal partner with A. A. Cady and A. E. Le-bourveau. Mr. Albisetti has long been known as an expert carver and his business ability has been exemplified as a very able official of the city government, in which capacity he is now serving fourth year

E. Cavicchi has shipped three new polishing ma chines this week. One to the Camden Marble Granite Co., of Camden, Ark.; one to the Stratford Marble and Granite Works, of Lewiston, Pa., and another to the Hynne-Beurud Granite Co., of La

McDonald & Buchan have got more elaborate work in hand now than ever before. One of them is a 7-6x3-10 semi rock face job with two pieces. The base is rock face and the die also, except a carved cross on the front and carving on the top and corner. They are cutting two true Scipio sarcophagus designs. Another Another one has a 9-3 base and a 9-3 cap. A large monu-ment has a second base 12x7-2. It is all polished and moulded. There are five pieces in all and every part is polished everythe account. every part is polished except the carving on plinth and cap and the corners on the base. This monu-ment goes to the Pacific Coast and is one of the biggest all-polished monuments ever cut in Barre. cutting is very attractive, especially around the square raised letters which are polished on the

face and the space between the letters is all polished

Little john & Milne are getting out a roof stone com their quarry that is 12x15x1-7. This is for from their quarry that is 12x15x1-7. This is for a vault they are cutting. It is a large plain structure, but tasteful in design. They are also cutting a much larger vault than this one, although ting a much larger vault than this one, although no one piece in it is as large as the roof stone above referred to.

Robins Bros. are cutting five mausoleums at present, and have just shipped one that was fin-ished. They are getting out three pieces of a roof

stone that are each 21x6 ft.

J. P. Corskie & Son have in process of construction the largest and most elaborate monument they ever cut. There are three bases, the bottom on 18x15. The die is 10-1x6-8, and in the center the latter is to be cut out an excavation enough for two coffins.

John Cross, of the New York office of Cross Bros., has been in Northfield and Barre for the past week looking after his interests. The firm has recently taken the contract to get out about 10,000 cubic feet of Barre granite for a new bank building in Hanover, Pa. They have not yet placed the quarry contract, but 't is assured that the stock will be taken from some of the Barre quarries.

Big Block Ditched.

The soft condition of the roads from the quarries to the city caused an immense block of gran-ite which was being transplanted from the quar-ries to Littlejohn & Milne's shed to be ditched to-day. The stone weighs thirty tons and measures 12x15 ft. The team struck a soft place and The team struck a soft place and the whole thing slid into the ditch, the maining in place, however, and not being damaged in the least. This is the first time that Littlejohn & Milne have had to deal with an accident of this nature.

Traveling Crane Came Down.

The large traveling crane at Stephens & Gerrard's cutting plant came down to-day shortly after 3 o'clock. A 12-ton block of granite was being lifted when one of the castings on the lower of the derrick, which holds the hinge iron rod braces in place, broke. Most of the strain was thrown on the main timbers in the center. One in the middle that one side came off the track and dropped with a crash. The derrick man jumped when he saw that the crane was coming down and beyond receiving the track man jumped when he saw that the crane was coming the company to the company down, and beyond receiving a bruised chin from bumping against a railroad car, he was uninjured. The immense stone, which was being moved, struck partly on another block of granice in the stock yard, and partly on a flat freight car which was on the shed's siding. Nobody was caught by any part of the machinery or stone as it fell. If the accident had happened in the cutting shed instead of in the stock yard, there would undoubt-edly have been some fatal results. The damage will be repaired in a few days. This is the first accident with a travelling crane in Barre for many

years, the last one having been when Marr & Gordon's derrick went off the end of its railway.

Business is good with the E. B. Ellis Granite
Co., at Northfield as they have just advertised for
150 granite cutters on building work with wages at from \$3.00 to \$4.00 per day.

Moving His Business.

A. Chioldi, a Montpelier granite manufacturer who has had shed room in the Globe Granite Co.'s shed in that city, is moving his business to Barre. He will take a part of the plant recently purchased from Young Bros. by L. G. Rizzi and will employ about one gang of cutters. He will be settled

in his new quarters by April 1.

Hon. Leslie M. Shaw, Secretary of the Treasury, has contracted with Charles A. Smith, a retail dealer of Montpelier, to build a sarcophagus monu-ment of dark Barre granite to be erected over the grave of his mother in Morrisville, Vt. The monuwill be set some time during the coming

The Webb Granite and Construction been incorporated for \$100,000.00 at Worcester, Mass. The officers are George D. Webb, president, Alvah F. Turner, treasurer, Chas. F. Webb, direct-

Articles amending the charter of the Western Granite Contracting Co. of St. Cloud, Minn., have been filed changing the name to the Granite Company.

The Massachusetts Pink Granite Company Milford, Mass., has been incorporated for \$100,000.00. The officers are I. M. Perry, president; C. H. Perry, treasurer.

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## QUINCY, MASS.

QUINCY, Mass., March 28 .- The manufacturers are in the midst of their spring rush prior to the delivery of Memorial Day orders and before another letter from this city, overtime will be the order in many of the plants. The past month has had many drawbacks to the trade. March came in like a lion and an excess of cold weather and several blizzards, had a tendency to curtail the quarry output and to curb the work in the

Another condition which causes the manufacturer some worry is the dearth of good some cutters. The building work throughout the country has caused an exodus of quick practical men. A healthy indication of trade, which makes the good cutters' absence more noticeable is the fact that rock faced work in monuments is going out of style. Many of the manufacturers believe that the rustic style of monuments has had its day and that more finely finished work is coming into

#### Caught the Thief.

Bush hammer thieves the last month have be ome so bold that it looked as though some drastic methods would have to be resorted to before the thieving would stop. The police were importuned but for a time were powerless.

One night, when five were taken from the sheds of Smith & Marshall, several from Casna & Cicconi, and four from Timothy Galvn', iu-spectors were despatched to Boston to watch the pawn shops. With the aid of Boston inspectors pawn shops. With the aid of Boston inches the culprit was apprehended and latter the culprit was apprehended him Avery, of the local court, sentenced him to six months in the county jail at Dedham. Since the arrest and sentence, the theiring has stopped.

McGilvary & Jones have nearly completed a massive mausoleum from Hallowel, Mo., granite. The facade called for several columns and some delicate carving, and when the job is set entire, it will present a pleasing appearance and one which for excellence of workmanship is bound to reflect lasting credit upon this old and reliab'e

George Ruxton, we'l and favorably known to the granite trade, has started in business at the plant lately occupied by Walter Fegan, on Penn plant lately occupied by waiter regan, on rend street, South Quincy. That Mr. Ruxton is a prac-tical granite man goes without saying. He was for seven years in business in Barre, Vt., under the firm name of McIver & Ruxton. Since coming to this city, nearly six years ago, he has been the directing agent of the McDonnell & Sons' Quincy plant and has achieved much success in the local field. His yard is connected with a spur track from the main line of the New Haven system, which means much for timely shipments. His main purpose is to manufacture carefully and well from the best granites in New England, Quincy preferred. He will give his personal supervision to the cutting and details of the work, and the customer is certain of an extra good job.

and the customer is certain of an extra good job.

The Tidewater Broken Stone company has purchased, through the agency of Thomas J. Lamb,
the large ledge with adjoining meadow land, at
Rock Island. Here the company will immediately
erect a mammoth stone crusher. The property
borders on Town River, and it is planned to
dredge the river from its channel to the company's wharves, so that vessels can be readily loaded. The company has booked to date orders The company has booked to date orders for several thousands tons of crushed stone, which will be shipped by water. Mr. Lamb, the agent, is an experienced trap rock man and of practical knowledge, and attention to business detail are the prime requisites the new company is bound to succeed.

D. E. Cameron has lately installed an Oldbam Surfacing machine at his cutting plant on Gilbert Street, and Nightingale Avenue. Mr. Cameron has achieved much success since entering the manufacturing field.

manufacturing field.
Forbes Craig has finished the many improvements to his cutting plant and polishing mill on Gilbert street, South Quincy. He has installed in the polishing mill the latest improved B. B. Special Smith, Whitcomb & Cook Co.'s polishing machine. The latter company, whose headquarters are in Barre, Vt., have an order for five of their polishing machines, to be installed in the various mills throughout the city.
Walter R. Fegan. granite manufacturer, has

Walter R. Fegan, granite manufacturer, has filed a petition in bankruptcy, placing his liabilities at \$10.771.16; Assets, 1550.00.

John A. McDonnell, of the firm of McDonnell

Brothers, has been on a several weeks' pleasure

tour through Cuba and Mexico. Mr. McDennell enjoyed every moment of his trip and is back to business, much refreshed after his late outing.

#### Mannex Abreast of Times.

T. F. Mannex means to keep abreast of the times, and is constantly adding new improvements to his quarry and cutting plant. The latest improve-ments are the installation of an Ingersoil-Rand ments are the installation of an installation of an installation of an installation of an installation are compressor and new engine. Mr. Mannex sees a great future for his extra dark quarry which is now producing some excellent stock. An order for a forty ton block is on the books and to raise same from the deep quarry hole will be a feat in modern quarrying. Mr. Manney in the second of the will be a feat in modern quarrying. Mr. Mannex has no misgivings about the result, howeve; as his new derrick of 50 ton capacity will be ca pable of landing the treasure on the bank, right side up with care.

Improvements "on the Mountain" back of the West Quincy depot continue apace. The granite West Quincy depot continue apace. The granite Railway company is the latest to add a new derrick to their quarry property, which for the year round is worked to its capacity. It will be the highest in the forest of spars, which abound here, for the "stick" measures 107 feet. The diameter of the main mast is 26 inches. The poom is 96 feet in length and 34 inches in discreboom is 96 feet in length and 24 inches in diare-ter. The derrick's capacity will be 50 tons. Luther S. Anderson, the company's efficient manather S. Anderson, the company of the East Eoger, personally purchased the mast in East Eoger, and had it towel to Quincy Point, whence it was teamed to its final destination in East was teamed to its final destination in East incy. The company has some extra large Quincy. work, under the hammer in its cutting she's, wh'le the quarry is worked to its capacity.

James W. White & Sons have a modernly

equipped plant in West Quincy. The firm besides catering to the wholesale trade have erected in the cemeteries of Boston and New York several pra seworthy jobs of no mean dimensions. Every of time and labor saving machinery ar available to their manufacturing plant skilled workmen are kept busy on the firm's cumulation of orders.

Over on Center street, Casna & Cicconi have a em of a plant for modern appointments. The members of the firm are practical granite men and orders from markers to delicately carve figures are sure to receive their undivided attention, and to be right in every particular. T eir speciality is carving and with their up-to-date appurtenances they can turn out on time, jobs which appeal to the fancy of the most fastidious. The firm has lately been admitted to membership in the Granite Manufacturers' Association.

John Harrigan, the sculptor and statue cutter has found it feasible to erect a traveling derrick at his busy plant on Federal avenue. By this means the immense blocks of Westerly and other granites can be handled with greater ease and dispatch. Mr. Harrigan has been slightly indisposed the past month and a severe grip cold k pt confined to the house for several improvements and work was carried on uninterruptedly, however, and at this writing he is in the harness giving every attention to his increasing business

Mr. John L. Miller is back after one of his lengthy business trips to the South. There are few idle moments at his p'ant and Mr. Miller is jubilant over his successful trip. He sees a great future for Quincy work in the South, and the ex-cel ent results of his many trips thither warrant his assertion that it is an excellent field for the

local manufacturer to reach.

McGrath brothers, on Water street near the Quincy Adams station, are at work on the Joseph Morse memorial for erection in Mount Nolluston cemetery, this city.

& Marshal have finished the Shaw mem Smith orial, an all polished Quincy sarcophagus, and the excellence of the workmanship has merited for the enterprising firm well deserved praise.

## C. A. Swingle & Co. in Front Again

C A. Swingle & Co., have emerged intact from the choatic conditions prevalent at their plant consequent to the overhauling of the machinery re ceived and the installation of a new engine and air compressor. Some large jobs in Westerly and Quincy granite are under the hammer and the quincy grante are under the nammer and the firm continues to ship their work in carload lots. The latter is easy, situated as they are on the main line of the New Haven system. A spur track enters their yard and the mammoth traveling derrick makes light work of placing large and small jobs on the flat cars.

The Perry-Keas' company, granite manufactur-ers of West Quincy, has been dissolved.

Tide-Water Broken Stone company has been incorporated under the laws of Massachusetts. Capital \$100,000.00, par \$5.00. President, Edward L. Dunning, Winchester, Mass; treasurer, William R. Caflin, Medford; clerk, Eugene R. Directors as above and George Atwood, Chelses,

Taylor and Henry H. Dewey.

James Mine, of the firm of Milne & Chalms, is convaescent after an attack of appendici-He has been confined to the local city hospital for several weeks where a successful operation was performed.

John Fallon & Sons are busy cutting the g an-ite trimmings for the new \$100,000,00 addition to the local high school.

A legislative committee has repo ted favorably upon their petition to bridge the Town River the point of navigation, thereby making easy of access, some valuable wharf property.

From present indications it looks that Town River at this point will become more of a shipping district for rough and finished granite. The development of wharf property here will be a boon to granite men and tend to revive shipping by water. It is a much shorter haul to this point from the quarries and cutting sheds than the locality formerly used for such purposes at the mouth of Fore River at Quincy Point.

A. M. Dean & Co., find work sufficient for the'r large cutting plant and polishing mill. Their of-fice force of draughtsmen, Messrs. Frank P. fice force of draughtsmen, Messrs. Frank P. Pierce and Phil ip Tobin, are ever on the alert, turning out the latest and best in monumental de-

There is a well founded rumor that several new plants will be in operation shortly west of Center streit and close to the granite branch of the New York, New Haven and Hartford Railway. For the benefit of those firms located here, and there are many, and in view of those seeking location, some concerted action should be taken to have a spur track enter this locality from the granite branch. ROCK PRODUCTS has already advocated the idea and it seems feasible for the Manufacturers' As-sociation of the Citizens' Union to give the matter weighty consideration. The Granite Branch is a direct communication with the Quarry Railroai which takes in all the quarries in West roa i which takes in all the quarries in West Quincy. Rough stock could be easily shipped in this manner and at a great saving in money and time. Then, too, the advantages of shipping finished work here are many. There is no question but that the shipping facilities at Quincy Adams are poor. The yard is small in area and during the spring rush conditions are deplorable. With a freight depot in this locality the congestion With would be greatly relieved at Quincy Adsms and the betterment of conditions to the manufacturers on both sides of Center street, would result in a lasting benefit to every manufacturer in the city.

Chief of Police Burrell, of the local department, is investigating the work of vandals who are wrecking small monuments in several cemeteries

of the city.

John Cashman, the quarry owner and gene al contractor, has resumed business after a winter spent pleasantly in travel through Cuba, Mexico and the southern States.

Joseph Reinhalter, who superintended the con

struction of the Henry H. Rogers Memorial church at Fairhaven, Mass., has secured a like position in the construction of a large government building at West Point. Mr. Reinhalter was for many years a resident of West Quincy and has been identified with the granite business in every branch for a number of years. During a recent visit here he hired about fifteen cutters and is looking for more to place on his West Point con-

Thomas Cantley has started in business at a

modernly improved shed on Center street.

Robert Cantley, who makes a specialty of turned work in all kinds of granite, has a large ed work in all kinds of granite, has a large force of men at work at his mammoth plant on the line of the Quarry Railroad in West Quincy. Mr. Cantley intends to ship his first carload of balus-ters for the Pennsylvania terminal station in New York within a month. The granite used is pink Milford and the freight facilities at the works are excellent.

Quincy Column Turning Co., have their share of orders in both home and foreign granites. Their lathes, both turning and polishing, are busy and a prosperous season is in store for

the company.

J. R. Richards at Quincy Adams is making a big bid for patronage in the retail trade around Massachusetts. Needless to say Mr. Richards, Massachusetts. with his up-to-date methods, is getting his share

This, with his large list of wholesale of same. dealers to satisfy, makes his plant the busiest of its kind in the city.

Robert Q McDonnell, of the firm of McDonnell & Sons and late of Barre, Vt., has assumed charge of the company's Quincy office. He reports business excellent in the firm's various plants through out New England, and the closing of contracts for some large jobs.

A. Ghighli, the sculptor with an international reputation, is in the midst of a busy season. He has some large and small jobs to complete which him continuously on the move. studio some excellent figures are in view and Mr. Ghighli has established himself hereabouts as a premier at his art.

Returns from the shipping terminals for the month of February show the total amount of rough and finished granite to be shipped was 6,856,790 pounds, a slight decrease from the preceeding month. Of the amount shipped last month 3,626,260 pounds were sent from West Quincy, in-Of the amount shipped last month c'uding the Quarry Railroad and 3,26,530 pounds from the Quincy Adams depot.

### Will Open Operations in Tacoma.

TACOMA, WASH., March 17.—The Ellis Granite Works, of Seattle, will build a big stone-working plant on the tidelands immediately north of the Eleventh street bridge, where the company has leased a site from the Northern Pacific rallway. The Ellis Granite Works operate large stone quarries in British Columbia and at Index, Wash., and it is proposed to transport the rough stone by water and rall to Tacoma and here dress it into shape for building and ornamental purposes.

The quarry operated by this company at Nelson, C., is one of the largest in the Northwest. The big building boom being experienced in Ta-coma and Seattle will, it is thought by those who are to build the new plant, demand the entire output of a mammoth local plant to supply the demand.

Representatives of the Northern Pacific railway will go before the council committee on franchises and present a request for permission to lay a track from the present spur track of the Northern Pacific to the site to be occupied by the

## Reduction in Freight Rates.

St. Cloud, Minn., March 12.—J. J. Hill, presi-ent of the Great Northern Railway has made good his promises to the granite dealers of this good his promises to the granite dealers of this city and he will give them a reduced rate on stone from here to Chicago, a rate which will allow lecal manufacturers to compete with the great Eastern producers of Barre, Vt., and Quincy, Mass. The new tariff provides that on and after March 12 the following rate will be in vogue:

LESS THAN CARLOADS.

Reduction of from 35 to 30 cents a hundred pounds from St. Cloud to Chicago, with correspondingly lesser rate on direct line to all incerniciate points. This is for monumental stone. Less than a carload shall be construed to mean less than 30,000 pounds.

ON CARLOAD LOTS. ON CARLOAD LOTS.

Reduction of from 24 to 17 cents a hundred pounds from St. Cloud to Chicago, with correspondingly lesser rate on direct line to all intermediate points. A carload shall consist of not less than 30,000 pounds and may include 80,000 pounds, depending upon the capacity of the car.

The above rate applies only to stone shipped via

the Great Northern, Northern Pacific and Burling ton railways.

It can be seen readily what a great saving in freights the above rates will give St. Cloud producers. Take a car loaded with 60,000 pounds of stone to be shipped from this city to Chicago. At 24 cents a hundred, the former rate, the freight would amount to \$144.00. At 17 cents a hundred, the new rate, the freight would be \$102.00 —or a saving of \$42.00 on a single car. On a car leaded with 80,000 pounds of stone the saving in freight under the new tariff would be \$56.00. These are very considerable items and the aggregate saving of a single season to the St. Cloud shippers will undoubtedly run up in the ten thousands. Now that Mr. Hill has set the pace, it is expected that in due time other railroads from the Minnesota Transfer will fall in line.

The Fitchburg Granite Company, of Fitchburg, Mass., has been incorporated for \$15,000.00; William G. Farrar, president; Edward E. Dennet, treasurer.

### Big Granite Plant in the West.

Granite, Okla., March 23.—The Ruggles Granite Co. write us: "The granite industry of Granite. O. T., affords a fine opportunity for a capable correspondent to visit. Here we can find an ideal undeveloped field to cover, one that has not been exploited and one that would be of much interest to to the trade on account of the magnitude and easy development of quarries, and the purity and beauty of its granite. We have one hundred and sixty acres, one hundred and thirty of which is along the south slope of Headquarter mountain, every foot of which is solid granite, of a texture and color closely resembling red Swede, and in every way as desirable. This body of granite rises abruptly from the level prairie to a height of four hundred feet. Along the foot of this bluff for three thousand feet we are extending a standard gauge track, which connects with the Rock Island main track. Along the quarry track we have twenty-five suitable locations for opening a quarry. ter of the track we have opened up our quarry and have equipped it with a 25-ton Lidgerwood steam hoist and a 25-ton, 75-foot Oregon fir derrick. Close by on a spur from the quarry track we are erecting a 24x108 polishing shed, equipped with equipped two seven and two ten-foot polishers, a 36-inch by 20-foot column lathe and polisher. Near this is our cutting shed, 80 feet long and equipped with a Kotten surfacer and a Kotten Junior surfacing ma-chine and all small pneumatic tools, another 25-ton derrick handles the stone at the shed. Our power plant—a stone building 26x30 feet, is equipped with an 80 h. p. boiler and a 376-foot compound Rand compressor furnishes air for the shed and quarry, a 40 h. p. engine supplies power for ma-



LIGIEBS QUARRY NEAR PHOENIX, ARIZ., SHOWING LAY OF ROCK ON SLOPE OF MOUNTAIN.

chinery at the polishing shed. Other buildings consist of an office, 14x20, two 50x20-foot boarding our quarry is in active operation. We have a large force of cutters at work on the stone for the large force of cutters at work on the stone for the Enid and Mangum courthouses, and a number of other small jobs throughout the country. In sixty days our finishing plant will be complete and we will be prepared to furnish choice American Rose polished stock in large quantities. Fortunately, our first order was for a large amount of rip rap for the railroad which enabled us to clean our quarry of all surface stone and insured our patrons with good live stock."

## Virginia Granite Operations.

Petersburg, VA., March 28.—The Petersburg Granite Company, whose quarries and other properties near this city were purchased a few weeks ago by William E. Dibbell, of Baltimore, has been incorporated for \$100,000.00. Officers are, president, William E. Dibbell; vice-president, Samuel White, of Beaver Falls, Pa.; secretary and treasurer, of Beaver Falls, Pa.; secretary and treasurer, William Penrose, of Baltimore. The directorate is composed of these officers and H. B. Gilpin, Wm. B. McIlwaine.

## Elect Officers

WESTERLY, R. I., March 12.—The Westerly granite manufacturers, at the annual meeting held recently, elected the following officials for the ensuing year:

President—James Gourlay; Vice-President—

Ardrew Farrell; Secretary—Maurice W. Flynn; Treasurer, John W. Sweney. Executive Cimmittee—James Gourlay, David McLaren, David McG. Newall, Henry Carnie, John Catlo.

The manufacturers and a committee from the striking paving cutters held a conference Saturday evening, at which the proposition of the manufacturers was refused. The proposition called for a two-year agreement and a stated price for drilling. The paving cutters demand a one-year bill and object to the definite specifications.

## West Virginia Granite.

HUNTINGTON, W. VA., March 7.—The F. C. Mc-Colm Granite Company of this city was incorpor-ated at Charleston yesterday with a capital stock of \$25.000. This company was recently moved to this city from Manchester, Ohio, and has cicus quarters on Second avenue near the Jarvis machine shops. The incorporators are F. C.

McColm, A. W. Werniger, J. D. McColm, Wylle Stableton and C. J. Nicholson, all of this city. The excellent railroad facilities furnished by this city, is one of the reasons for its locating here.
The company owns about three and a half

acres of land in that section.

### Snow Shoes Still Fashionable.

MILFORD, N. H., March 29.—The following epistle from Mr. Curtis K. George, shows him to be a "fellow of infinite humor" and we hope to be able to print some more of his philosophical

The writer is one of the undiscovered success "The writer is one of the undiscovered success-ful human errors. However I am making a strenuous effort to play first harp, by reading the very best literature, for instance ROCK PRO-DUCTS which is truly deserving of first place in the list of rock reporting journals. Your magazine merits all advertising of the progressive—but then there are people who know not, and will never learn, that they do not know that they and know not. Snow shoes are the stepping pads to success in this s ction at present"

## Will Operate Brookline Quarry.

NASHUA, N. H., March 28 .- A partnership has been formed by Leon E. Leway, of this Joseph Paradis and George Desmarais of M Nashua Lake Street Granite Company, for the purpose of operating on a somewhat extensive by Mr. Paradis.

### Gets \$50,000.00 Contract.

NORTHFIELD, VT., March 26 .- The E. B. Ellis Granite Co. has received the contract for furnishing the granite for a magnificent residence to be erected in Duluth, Minn., by Chester A. Congdon. \$50,000.00 worth of granite will be used, some of it in landscape garden trimmings. The mansion will be built during the coming season. The company is at present short of cutters. It is erecting a new 20-ton yard derrick north of the No. 1 shed, the mast of which is nearly 80 feet in length. It has recently installed in one of the sheds an elec-tric heater on trial to be used in connection with the compressed air apparatus.

## Largest Stone Ever Quarried at Milford.

MILFORD, MASS., March 31.—At the Bay State plant of the Milford Granite Co., the largest stone ever quarried in Milford was gotten out here the The stone measures 45 feet across the is 75 feet long and extends down 35 feet in the hole

It contains about 35,000 cubic feet and will keep a big gang of cutters busy for months.

## Secures Large Contracts.

POBILAND, MAINE, March 29.—The Maine and New Hampshire Granite Corporation of this city New Hampshire Granite Corporation of this city has just been awarded one of the largest granite contracts that has been let in the west for several years. This contract is for the main building of the Marshali Field department store, Chicago. The building is to be 14 stories high and has a frontage on State and Washington streets and the entire building is to be of granite from the company's quarries at North Jay, Me. This contract was won in competition with all the largest granite companies in the country. In addition to this contract, the company is now working at North Jay on a large banking building for the Cleveland Trust Co., Cleveland, O. These two contracts will necessitate the employment of several hundred men at North Jay for the next

several hundred men at North Jay for the next two years.

The Maine Granite, Paving and Curbing Co., has been organized at Eden, Maine, for the purpose of owning and operating granite quarries and carrying on a general construction business with \$50,000.00 capital stock. Officers are W. E. Crokett, of New York, N. Y., president; Will R. Harvey, of North Sullivan, treasurer.



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## INDIANA OOLITIC LIMESTONE



FOUNDER'S TOWER, UNIVERSITY OF CHICAGO.

It is again our pleasure to present another striking example of the many and varied uses to which Bedford Stone has been put. This building is one of the central group of buildings composing the University of Chicago and lends grace and dignity to the entire ensemble. It is an exemplification of the ornamental qualities of this stone.

The Bedford Quarries Co., Bedford, Ind. and Chicago, Ill., furnished the stone to Furst & Fanning, of Chicago, who were the cut stone contractors working upon the plans of Shepley, Rutan & Coolidge, the well known architects.

## PERRY-MATHEWS-BUSKIRK STONE COMPANY.

GENERAL OFFICES: 320 Monadnock Block, CHICAGO.

Quarries and Mills: BEDFORD, IND.

NEW YORK OFFICE, Fuller Building.
BOSTON OFFICE, 45 Milk Street.
PRILADELPHIA OFFICE, Witherspoon Building.
CLEVELAND OFFICE, Hickox Building.



CUT STONE CONTRACTOR, JAMES A. McGONIGLE, LEAVENWORTH, KANSAS.

## The Consolidated Stone Co.

DARK HOLLOW QUARRIES, BEDFORD, LAWRENCE CO., INDIANA



Producers of the Celebrated Dark Hollow Buff and Blue Bedford, Indiana, Limestone.

Their large Mills are equipped with the most modern machinery,
capable of filling promptly the largest orders for Sawed Stone—
every description of planed molding—Balusters and turned
columns and bases of all descriptions.

General Offices: 322-324 Monadnock Block, Chicago.

NEW YORK OFFICE, 1123 Broadway.

PHILADELPHIA, 730 Witherspoon Building.

BOSTON, 45 Milk Street.

Tell 'em you saw it in ROCK PRODUCTS.



BEEDSEYE VIEW OF QUARRIES AND MILLS, PART VIEW OF PLANT.

## THE BEDFORD QUARRIES CO.,

CELEBRATED

## HOOSIER QUARRY

CHICAGO OFFICE, 204 Dearborn Street. NEW YORK OFFICE 949 Broadway. CLEVELAND OFFICE, 190 Euclid Avenue. Quarries and Mills
OOLITIC, IND.

## W. McMILLAN & SON

INCORPORATED

Bedford Indiana Limestone
MILL BLOCKS, SAWED, PLANED, TURNED



642-654 So. Rockwell St.

Chamber of Commerce Building CHICAGO, ILL.

Bedford, Ind.
Bloomington, Ind.

LEADING PRODUCERS OF BEDFORD OOLITIC LIMESTONE.

We are producers of Buff and Blue

AUDITORIUM HOTEL AND ANNEX, CHICAGO.

## Bedford Oolitic Limestone,

Sawed, Turned and Machine Dressed.

## OOLITIC STONE CO. OF INDIANA.

MONTPOLLING

ROBERT REED, Sec'y-Treas.

THE BEDFORD QUARRY CU.

BEDFORD,

AND THE NORTON-REED STONE CO.

INDIANA.



The above Buildings Were Erected From the Buff Limestone of Our Quarries.

# GEORGE DUGAN, Gut Stone Contractor

BEDFORD, INDIANA

We built the Main Art Building, World's Fair, St. Louis, Mo., and have many Government buildings to our credit. No job is too large or too small for us. Write to us.

## John A. Rowe,

CUT STONE WORKS.

## BUILDING STONE

Rustic Monumental Work is Our Specialty.

Our design book centaining 52 designs, price . . \$1.00

BEDFORD. IND.

## BEDFORD STONE

Sawed, Planed, Turned or Cut

Bedford Steam Stone Works, INDIANA

Estimates promptly turnished. F. O. B. Bedlord or delivered.

## Indiana Bedford Stone Co.,

MILL BLOCKS and SAWED STONE.....

Complete Stock of Seasoned Buff Stone and Quick Service.

`\*

BEDFORD, IND.

## Furst-Kerber Cut Stone Company,

-CONTRACTORS-

## BEDFORD OOLITIC LIMESTONE

Equipped to Work Winter and Summer.

Our Specialties: Good Workmanship, Material and Prompt Service Guaranteed.

Cutting Plant, BEDFORD, IND.

Main Office, 443 Fifth Ave., CHICAGO.

Tell 'em you saw it in ROCK PRODUCTS.



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# Slate.

#### About Slate.

The London Globe prints the following about the early use of slate:

"It is not easy to tell exactly for how long a period slates have been used by school boys; but they were used as writing tablets as far back as the middle ages, and probably, therefore, they were introduced into the schools of Europe at a very early period in the history of education in

this part of the world.
"And, indeed, it would be hard to find a more "And, indeed, it would be hard to hid a hard suitable substance for the purpose than the easly flakel stone which yields a smooth surface with a minimum of trouble on the part of the workman. The ancients, as we know, frequently emissions. ployed waxen tablets for the purpose of writing letters or making calculations which were not intended to be permanent, and could easl, be smeared out of all recognition with the finger Di igent housekeepers and clandestine lovers found these easy means of reckoning or communication equally indispensable; while for the man of letwhether orator or lyric poet, the tablets on which were jotted down the heads of a great speech or passionate stanzas to some fair lady were almost as necessary as pockets (of which the ancient world knew nothing) to the modern man or boy.

"Compared with these parishable aids to meniory, the slate was very long lived. For though name implies a brittle substance easily broken off when the line of cleavage is discovered—being equivalent to the French 'eclat'—yet slate does not coltarse like wax with the application of moderate heat; and even if cracked by a fall, might still be used if its frame was stout enough to stand the shock. It is not surprising, therefore, that the slate, when once introduced into school

and domestic life, soon became popular.
"But slate is also a good roof covering, and has been used for this purpose for eight centuries, at least."

#### Will Begin Operation Soon.

Boston, Mass., April 3.—E. A. Bullard, of 131 State Street, this city, says that without doubt he will commence operations on his Brownville, Me., A new company will be formed and one quarry

will be equipped with new and modern machin-ery at once and probably by another spring a

second plant will be put in operation.

There is a great demand for this particular slate at most satisfactory prices. One concern alone says that they would use 3,000 squares during the coming year if it can be supplied.

#### Large Slate Operators.

Many readers of Rock Products will be intere ted in the pictures printed upon this page show-ing scenes about the works and quarries of The Vermont Slate Co. This concern are manufa turvermont State Co. This concern are manufa tur-ers and exporters of roofling slate only, have their quarries at West Pawlet. Vt., their general offices in Granville, N. Y., and 2 western sale-office at Zanesville, O. To provide for taking care of the export trade, the company has an office in London, Eng. Mr. H. F. Rohrman, who is the vice president and treasurer of the firm and whose office is in Zanesvile, was interviewed by a Fock Products representative, and among other things he said, "The slate industry is yet in its infancy "The slate industry is yet in its infancy untry. Ten years ago it was practically ne said, "The state industry is yet in its infancy in this country. Ten years ago it was practically unknown for roofling purposes throughout the Scuth, while to-day it finds a ready market there. Slate for roofing has made wonderful headway in Michigan and Wisconsin, the great lumber states, where it is rapidly gaining favor over shingles and will soon replace them almost entirely."

Mr. Rohrman, in connection with Mr. John G.

Williams, organized The Vermont Slate Co. Last October Mr. Williams met sudden death by a fall of slate in the company's quarry and the mass of debris in the foreground of the quarry picture on this page shows the pile under which Mr. Wil-liams and nine workmen were buried. Mr. Hugh

Williams has succeeded him as president.
The territory controlled by The Vermont Slate
Co., upon which their quarries are located covers
1½ miles and the material found here is of good
quality, strong and tough. Their works quality, strong and tough. Their works are well equipped for the production of superior roofing

The company manufactures and exports "Superior" sea green, unfading green, red and purperior" sea green, unfading green, red and pur-ple roofing slate. Mr. Rohrman concluded his utterances by saying that their business so far this year had greatly exceeded that of the same period last year and every indication points to a most prosperous year.

#### New Company Formed.

WHITEFORD, MD., March 19 .- The interest of the Cambria Slate Co., consisting of 100 acres of slate land adjoining one of the largest and test quarries in the Peach Bottom slate district, has been bought by the Baltimore Peach Bottom Slate The officers of the new company are Charles Fink, of Westminter, Md., president; Joshua Dew, treasurer, and W. Scott Whiteford, genal manager. They have installed two cables eral manager. with towers and hoisting rigging. The necessary building for saw tables and planers have been erected and inside of thirty days they will be making slate and mill material.

#### Fine Prospects for the Season.

POULTNEY, VI., March 23.—The quarries and works of the New York Consolidated Slate Co., works of the New York Consolidated Slate Co., are in very active operation at present and all indications point to one of the most successful seasons in their history. This company makes a specialty of manufacturing roofing slate and their well-known mottled purple and unfading green roofing slates are favorably received over a large territory. The company has prepared for a very territory. The company has prepared for a very busy year by making improvements about their large plant at Poultney.

#### Interesting Notes From Maine.

The Mathews and the West Monson quarries are very busy, being pressed with orders.

Monson, Me., March 15 .- The Monson Slate Co., of this place, are doing a fine business in mill electrical slate. Business demands the working of large crews both day and night. The company owns some of the finest slate for this purose yet discovered.

PLANCHARD, ME., March 15 .- The Maine Blanchard Slate Co., report a very excellent business during the present season. Their line is mill and roofing. New machinery has been installed at their quarries and works and everything points to the continuation of their success. Mr. John Douglas is the manager.

BROWNVILLE, ME. March 15,-The old Merill quarries here are working steadily although not pushing things very hard thus far this season. This company manufactures and quarrys roofing slate only and have a very fine quality of it. This summer quite a number of men will be added to their present force of workmen.

CARRATUNK, ME., March 15.—The new Somerset railroad, building through this place have discovered a new ledge of slate said to be of fine quality. Mr. R. C. Penny, of Bangor, Me., the well known slate operator has been asked to prospect the new find and make a record on sawe Mr. the new find and make a report on same. Penny says that if the ledge pans out as well as the indications predict that it will be a very valuable find.

#### Slate Quarried Near Phœnix.

PHOENIX, ARIZ., March 16.—Although Arizona is famous for her mining industries comparatively famous for her mining industries comparatively few people outside of the territory are aware that large slate deposits, said to be of the best quality to be found in the West, are now being developed near this city. A new company, of which Mr. Shirley Christy is a member, has been organized to operate quarries on 50 acres of slate property located on the city limits of this city, a deposit discovered five years ago by Mr. A. W. Gregg. This company is capitalized for \$100,000.00 and will manufacture tiling, stair casing and roofing slate. A large force of men are now engaged in the work of stripping and preparing for the inthe work of stripping and preparing for the in-stallation of necessary machinery and in a short time the company will have a large output of very excellent slate.

#### Doing a Fine Business.

EASTON, PA., March 20.—The Pennsylvania Stuctural Slate Co., are among the busiest concerns in the entire slate industry. They have everything in shipshape in anticipation of a most successful season. Their works and quarries are running full blast and with a large preduction. This company is making a specialty at present of their new laundry tubs made from slate which are truly, as they say, "proper things." They have met with much success in the introduction of this feature to their business. The other branches of their business show a like growth and everything about their plant evidences an air



VIEW OF QUARRY AND WORKS OF THE VERMONT SLATE CO., AT PAWLET, VT.

# Monuments.

Georgia Dealers to Get Together.

A meeting has been called for April 14, 10 a. m., at the Piedmont Hotel, Atlanta, Ga., for the retail marble dealers of Georgia for the purpose of organizing a Retail Marble Dealers' Ossociation. The object of the association will be the protection of the retail marble dealers in Georgia, the regulation of prices and the securing of her protection of the retail marble dealers in Georgia, the regulation of prices and the securing of better freight rates. Hearty co-operation has been promised the promoters by a large number of the dealers, but every man in the business should answer this call, attend the meeting, and by his personal attendance help the good cause along.

## A Retailer's Remarks on Prices.

Noticing considerabe talk about low prices on monumental work in Barre and Quincy, we would like to give a retail man's side and what the effect appears to be to him. The retail man, the effect appears to be to him. The retail man, as a rule does not care what the price of the job is, providing he gets as reasonable a price as the other buyer. As the matter now stands, prices will vary according to the amount of ordes a manufacturer has on hand. The buyer being at a distance does not of course know which man is loaded up, and sends to half a dozen different dealers for prices. This does not necessarily imply that the low man is not just as reliable as the higher priced man, but it has a bad effect on the buyer, as it gets him into the idea he must shop around to prevent getting stuck.

on the buyer, as it gets him into the idea he must shop around to prevent getting stuck.

If the manufacturers would get together and put a certain percentage of profit on the bill of prices for cutting, there would be no need of shopping round. We think also the Association at Barre and Quincy would do well to guarantee the quality of work sent out by their members. As it is now, work will be shipped, carted to the cemetery, set up before being viewed by the retail dealer, and the result is he is often disappointed in the quality, a good many dealers understanding that a man will accept a piece of work that is not satisfactory, because he has paid the freight money, the teaming and the setting, rather than have any trouble with the manufacturer or jobber. This gives the sharper an opportunity to hustle round for a discount.

If Barre and Quincy would put out a standard quality of work, charging a fair living margin, selling to one way livet as cheen as they will to

quality of work, charging a fair living margin, selling to one man just as cheap as they will to another, they will have no reason to complain

of cheap prices.

I would like to hear from some other retail dealers along these lines.

#### New Orleans Monuments.

New Orleans, La., March 28.—Not only do the people here delight to honor heroes, but those who have been of great service to the city. The statue erected in honor of Margaret is the only statue erected in honor of Margaret is the only one erected to a woman in the United States. Yet her life was a humble one. From a baker's servant she grew to be the owner of baker's, and a woman of wealth. No one was turned away hungry from her door. Orphans were her especial care. She founded an asylum or two and at her death gave all she had to the orphanages in the city. Her will was signed with her mark, but no woman has ever lived in this city who was more beloved and revered.

who was more beloved and revered.

About a mi'e and a half below the city, on the site of the Battle of New Orleans, January 8, 1815, rises a plain white shaft of marble, 60 feet high. It was begun in 1830, fifteen years after the battle of New Orleans, but has not been completed. The money appropriated by the legis'a ture was expended and the work abandoned. The monument by state enactment has been placed under the care of the Daughters of 1776-1812, and that organization proposes to complete it. Congress will be asked to make an apropriation for that purpose.

The monument has a stairway and tourists every year visit it, climb to the top and look over the historic surroundings.



CHALMETTO MONUMENT WHICH NEVER HAS BEEN COM-PLETED, ERECTED ON BATTLEFIELD OF BATTLE OF NEW ORLEANS.

While the monument at Chalmetto is in honor of Jackson's victory and marks the spct of the bloody conflict, a more imposing monument was erceted in his honor in the very heart of the historic part of the old city more than half a century ago. It was on this spot that Gen. Jackson was received after the Battle of New Orleans with mildest description. with wildest demonstration. A group of Creole girls, each representing one of the states of the took a prominent part. The one impersonating Louisiana crowned him as victor and hero. After that the square was called Jackson square. On the west side of the square is the old Cathedral that was established when New Or leans was first settled. On each the old Spanish court buildings. On each side of it are

The monument erected to Jackson in the center of the square was made by Clark Mills at a cost of \$30,000.00. A base of Tennessee granite is surmounted by a bronze equestrian statue of Gen. Jackson. It weighs 20,000 pounds and the balancing of the rearing steed without a prop is considered a feat little short of marvelous.

#### Blakely Becomes Manager.

Indianapolis, Ind., March 22.—The Co-operative Granite Co. say: "Business is fairly good with us, but we are inserting the strike clause in all our contracts as we anticipate some labor trou-bles here the first of May. However do not think it will be serious. Mr. H. A. Rockwood, who was our manager for about five years, has severed his connection with us and Mr. E. H. Blake-ly will succeed him as manager. Mr. Rockwood has gone into business for himself at 216 N. Del-ware Street, operating a company water the aware Street, operating a company under name of Capital City Monumental Co., forme known as the Indiana Marb e and Granite Co. formerly



ANDREW JACKSON MONUMENT IN JACKSON SQUARE A FEATURE OF THIS MONU-MENT IS THE BALANCING OF

# Some Views Pertaining to the Country Dealer

A prominent operator said to one of our representatives recently:

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"If the country dealer would buy a small library on classical subjects and study the books thus purchased, he would be in a position to make designs and proportions for his monumental work, that would be a credit to him instead of a detriment. As the trade is conducted now, 90 per cent. of the monuments are proportioned by boys of from 16 to 18 years of age, earning a salary of from three to ten dollars a week in the jobber's

"These designs have neither proportion or ar-tistic merit. In addition to this, the jobber's work is usually so poor that if a customer wants a good design, he sends to some up-to-date designer, or city dealer, with the result that the country dealer, although he has vastly more experience than a city man ever has, has to be content to take the small work in his vicinity, and see the large ork 30 to outsiders.
"This is not as it should be and there is no

reason for it, as any dealer no matter how small can do his own thinking.

"Cultivation of 'Gray matter' is a great deal like growing cabbage, the more you cultivate it, the petter it grows. This cultivation sometimes results in swelled heads, but more often times in

"The country dealer should also learn to estimate his own work. It is just as easy to estimate at home as it is to ask some agent what a job is worth, depending entirely on his honor for a price, but in reality being sized up as to how much he is good for

"A menument well cut, and of good stock is worth its price, but when you buy from a man who does not cut his own work, but who is throwing bououets at you in the way of free designs, it is certain to be put on the price, if you get the quality but my 20 years experience at the quarries is to the effect that it is usually taken out of the job. The results of such work are visible in plen-

"We advise all dealers to buy from the man who cuts the work, he will then know whether that man can please him or not. He will also know who is responsible if the work is unsatis-

The speaker then continued: dealer would only stir himself and get to work he would be the very best man in the trade. He knows the land, the roads, has the facilities for travel in the shape of his ever ready buggy and knows all the people and their wants, and takes and preferences. But he does not do enough work individually. He does not rely enough on himself, and too much on others. He sits around giving a great deal of attention to politics, and when an order comes along, instead of thinking over it and working it out himself he sends to the jobber, because it is the easiest way out of it, and he gets the stereotyped design that every one and he gets the stereotyped design that every one else gets. But if he would only study and plan things himself, he would get credit for individuality with his customers and he would find trade coming to him because he was giving a different service from the others. I certainly think it would redound to the profit of the country dealer to get to thinking and using his head nicre."

### Wholesale Plant Established.

NEB., March 5 .- The Great Омана, Granite Co, report that they are establishing a large wholesale plant in Omaha with a cutting large wholesale plant in Omaha with a cutting plant 65 x 80 feet, located on the Chicago Western R. R., at 16th and Elevenworth Street, tho:oughly equipped with up-to-date machinery. They handle all varieties of granites and are in a position to take care of the wants of their customers at any time. They say orders are coming in very fast and the future looks very bright.

# **Business Looks Good.**

COLUMBUS, KANS., March 14.-Mr. D. M. Jones says: "I have added another pneumatic hammer to my equipment, making four now in use. I have also added a blacksmith shop to the p'art for the purpose of sharpening our tools, thereby saving quite an expense. Most of the granite I am cutting and polishing is Oklahoma Red and I find it very profitable and satisfactory. There is a very bright outlook for the future."

# A Square Deal for New Tools.

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Frequently from the larger monumental shops there comes the report that this or that new tool is worthless when other shops working in identically the same material and on the same class of work report the tool to be very efficient, capable of doing a great deal more than the makers themselves claim for it. Now when such reports are put together it simply means that one dealer has taken the word of his workman and not investigattaken the word of his workman and not investigated the veroict. It is up to the proprietor of the shop to see that the new tool is given a fair show so that he will not be at the mercy of one workman in his shop, whose opinion may be biased in many ways outside of the qualifications of the tool itself. In some cases this has gone so far as to actually discriminate against an improved class of working tools and throwing the preference to an inferior article all on account of the personal preferences of the workmen for the salesmen of the inferior goods or perhaps from some other personal reason. When a monument man puts in an outfit of new tools on trial, it is his duty to see that the merits of the tools are tried by a fair rule

outht of new tools on trial, it is his duty to see that the merits of the tools are tried by a fair rule of comparison with the old tools in use in the shop and in the hands of more than one workman.

The progressive man who puts in new machinery is entitled to the benefit of the latest developments of the toolmaker, and the only way that these can be secured to him is to guarantee in his own mind at least that every one of the new tools. own mind, at least, that every one of the new tools has had a fair and square trial in comparison with others before they are condemned. A little care in this direction will procure very satisfactory results in a number of cases that have come to the notice of our visiting representatives.

#### Made a Revolutionary Soldier's Monument.

Made a Revolutionary Soldier's Monument.

Senacafille, O., March 25.—Mr. G. W. Stockwell, one of the oldest marble and granite dealers in the state, having been in the business for forty-five years, has opened up business in Sènecaville, and has sold quite a lot of granite during the past winter. He reports that the outlook for the coming year is good and do's not see why it should not be the banner year as everything looks so prosperous.

Quite a number of years ago, Mr. Stockwell erected a monument to the memory of one John Grey; buried in a farm graveyard in Noble County, Ohlo, who was the last survivor of the Soldiers of the Revolutinary War. He was a companion of Washington and died in 1868, at the age of 104 years, two months and twenty-three days. He entered the army when eleven years old. All the above was inscribed on the monument.

## Establishing a New Shop.

MALONE, N. Y., March 28.—O. C. Earle will open a shop and begin operations in the Earle building at Duane and Harrison Place. His son, Julian D. Earle, will be the manager of the business and is a practical monumental man of long

### Good Firm Getting Down to Business.

ANTIGO, Wis., March 18 .- The Antigo Marb'e ANTIGO, WIS., March 18.—The Antigo Marche Works, of which Church & Dryer are the proprietors, have begun operations in their plant, opposite the City hall. They will carry a full line of stock and will be in a position to take care of the various kinds of work in their line. Mr. Church has been in the monument business for a number of years, while Mr. Dryer is a for a number of years, while Mr. Dryer is a young man of practical experience and there is no doubt but that they will succeed in their new undertaking.

#### Stands on Its Reputation.

Porrsville, Penn., March 10.—Mr. G. L. Shreader, 553 N. Center Street, has recent installed a Franklin air compressor, which supplies the power for his well equipped shop. Mr. Shreader has established a reputation for good work in his state, for evidences of his handiwork are found not only in the smaller but the larger cities. In his show room are found quite a number of monuments both in the finished and unfinished state, for the inspection of his customers. The very finest quality of granites is to be found in these finest quality of granites is to be found in these monuments, embracing such granites as the Barre, Quincy, Westerly, Troy White, Battlefield and Richmond.

#### Will Erect New Plant.

STAFFORD, Mo, March 21.—Mr. John Carmicheal, of Purdy, Mo., will erect and install a modern plant for the purpose of operating a marble and monument hop. All up-to-date mach nery will be used and he will be prepared to handle all classes of the very best work. He will erect a cement block building and operations will begin at an early date.

#### Change in Location.

Bowline Green, Ky., March 29.—J. M. Treece, formerly operating a marble yard at Rich Pond, Ky., will move to Bowling Green and will occupy the warerooms of Gerard & Gerard, on Center St., between Tenth and Eleventh Streets. Mr. Treece has been in the marble business in Kentucky for thirty-flye years. thirty-five years.

#### Kick at the Railroads et al.

Newabek, N. J., March 28.—Mr. E. J. Kisling, says: "We are doing a large business in artistic monument work, but have been having our trouble with the Barre stone cutters. They do not seem to be quite up on the artistic line and were it not for some of the parties in the whole-sale line, we would have to cut Barre out. We also have another kick to register against the slowness of the railroads in Vermont. We notice that it takes from four to six weeks to get a that it takes from four to six weeks to get a shipment from there. We think that comething should be done to help matters in this direction.'



A BEAUTIFUL MONUMENT ERECTED BY E. J. KISLING, OF NEWARK, N. J.

### Outlook Very Encouraging.

BLOOMINGTON, IND., April 4.—R. H. Carpenter, well known in monumental lines in this city, reports that the demand for monuments both from wholesale and retail lines are exceptionally bright thus far in the season. He says he has already secured a large number of nice orders, without any solicitation on his part. He believes that the present year will be the best in the history of the monumental business.

#### Monumental Pioneers.

BLOOMINGTON, IND., April 4.—Currie & Son, are oneer monumental men of Bloomington and feel much encouraged over the prospects for a good year's business in the monumental line. Everything is moving along satisfactorily with them and the orders thus far obtained are ample evidence of a very prosperous year. Weather conevidence of a very prosperous year. Weather conditions have thus far handicapped them to some extent, but they believe now that every thing will turn out most favorable for them.

It is rumored that Messrs. Karlzen & Wilden, of Joliet, Ills., manufacturers of monuments, contemplate opening a branch at Geneva, Ills.

#### Planning Improvements.

CENTER CITY, MINN., March 24.—Mr. John N. Westlund says that he has several carloads of ranite and marble work lettered and ready to set early in the spring. Mr. Westlund wishes to purchase a couple of stiff-leg hand power derricks, either new or second-handed. He always carries a nice stock of marble and granite work on his floor and reports business as very good.

#### Lively Times Ahead.

DECATUR, IND., March 12.—Messrs. Cress & Beavers say, "Business is quiet at present, but there is every indication of lively times later on in our vicinity."

#### Added Another Room.

Mt. Sterling, Ill., March 12.—The Modern Marble and Granite Co., have added another room to their shop, owing to the increase in business. They will carry a larger assortment of stock than heretofore and will be in a better position to take care of their customers' wants. Business is very good with them for their order book shows some good contracts for spring delivery.

#### New Marble and Granite Firm.

EATON, RAPIDS, MICH., March 20.—Messrs. Edward Shaw and Glenn Lee have organized a firm for the purpose of engaging in the marble and granite business. Both these gentlemen have been in this line of business the greater part of their lives and being practical men there is no reason why they should not succeed.

#### Making Improvements.

Sullivan, Ind., March 30.—Cummins, Drake & Waggoner, proprietors of the Sullivan Monument Works, have recently insalled a five horse power gasoline engine and an air compressor. By thee improvements the firm is enabled to turn out a finer quality of work.

The Woman's Relief Corps, of Coldwater, Mich., are going to erect a soldiers monument in that city soon.

The Humboldt Park Monumental Works has been incorporated at Chicago for \$5,000.00. The incorporators are Arthur Jackel, Fred M. Benuigsen and Annie Bennigsen.

The sum of \$25,000.00 has been appropriated by the legislature of Maryland for the purpose of erecting a suitable monument to Maryland's soldiers who fell in the Civil War.

The Pennsylvania State Monument, at the Vicksburg battlefield was unveiled recently. It is a fitting memorial to her heroes that fell. The Lewiston Monumental Works, Lewiston, Me., cut the job from Maine granite. It has already been described in detail. described in detail.

John Bain & Son, Boone, Iowa, have completed plans for the opening of a monument works. The establishment will be in charge of Mr. George W. Striker who has been in the monument business for twenty years. The shop will be equipped with all modern appliances to produce an up-to-date establishment.

The annual meeting of the Truesdell Marble and Granite Co., Port Huron, Mich., was held recently, and the following officers were elected: President, Helen M. Truesdell; secretary-treasurer, Sanford W. Ladd; assistant secretary, Frank Mallon. A pneumatic tool plant is at present being installed by the company

The Lafayette Granite Co., Lafayette, Ind., was recently organized, the company being composed of Messrs. J. C. Chancellor and W. W. Evans, of Fowler; Louis H. Schlesselman and Charles H. Bradshaw, of Boone. The company will deal in monuments and monumental work of every description. Mr. Schlesselman will be manager of the concern and Mr. Chas. Miller, of Fowler, will be foreman.

Mr. C. F. Funk, formerly of Mondovi, Wis., has purchased the interests of Mr. G. A. McClintic in the M. & M. Marble and Granite Co., Grand Junction, Colo., and the business will hereafter be conducted under the name of the Western Slope Marble and Granite Co. Mr. Funk has been in the monument business for fourteen years and is an expert marble cutter. A successful business is predicted for the new firm.

#### Where the Dealer Fails.

There is a certain percentage of monumental dealers who persist in wholly disregarding the rights of their customers. It would even appear that they believe those who purchase monuments from them have to submit to their wishes without recourse. This may seem far fetched; it may even appear as unreasonable and without foundation, but sufficient evidences are always at hand to verify the assertion.

to verify the assertion.

We have lately seen a fair sample of this injustice on the part of a dealer but such occurrences are so common that it could not excite more than a passing comment. Some dealers expect their customers to accept a job at the original specified price, regardless of its merits. In some instances the stone is damaged; the letters are ill-shaped, the base is out of proportion; the carving is miserable. Is it right to even offer a prospective customer such a job and expect him to accept it?

The successful monumental dealer is the one who has the highest regard for his customers' wishes. He values their influence, which is equal to the best advertisement, and will rather go out his way to please them than otherwise. He doesn't feel that these efforts are in value, but that an / 1 the courtesy on his part will not be forgotten.

The mistake some dealers still make is in doing unsatisfactory work and then trying to dispose of it to a supposed unsuspecting customer. It's a grave mistake and one that too often is the beginning of his failure.

#### Will Install Pneumatic Tools.

HYNDMAN, PA., April 4.—Printed up n this page are two views of the shop and yard of George W. Grose, a progressive marble and granite dealer of this city. Mr. Grose has been a resident of Hyndman for 14 years and has by square dealing and honest efforts made his business one of the most successful of the place. During his business experience he has always manifested a spirit of progress and will soon install pneumative tools. Mr. Grose contemplates a visit to Pittsburg the latter part of the month in order to take a look at some plants before making his purchases. A lot across the street from the present plant has been secured for the erection of the tool plant. Mr. Grose is at present employing eight men and business is exceedingly brisk.

# Purchases Stock and Will Operate Quarry.

HUMBOLDT, NEB., March 26.—J. S. McLeod, of California, has purchased all the stock of the Sky Blue Marble Co., which was organized a few years ago to develop a pit of marble and onyx, near Riverside, Cal. It is said that Mr. McLeod will renew operations at the quarry on a large scale.

#### Largest in the County.

Marion, Iowa, March 21.—Lutz & Lutz, who are well known dealers of marble and granite monuments, have recently erected a one piece Barre monument in Oak Shade Cemetery. The monument is 6-6 high, 3-6x3-6 and weighs over 11,000 pounds. It is the largest monument of its kind in the county and was erected in honor of the late Samuel Starry.



UNIQUE JOB CUT BY LUTZ & LUTZ, MARION, IND.

L R. Claussen has opened a shop in Minneapolis, Minn., at 917 Minnahaha Ave.

Edward Larson has recently established a marble and granite business at Madison, S. D.

The Skinner Marble Works, of Portland, Me. suffered a small loss from fire on March 23.

Mr. J. O. Bel', of La Grange, Ga, has been employed as the local representative of the Mc-Neal Marble Co.

Fred H. Sammis, receiver of the Standard Group Marble Co., of Spokane, Wash., reports that if sufficient capital can be interested the quarry would prove a paying investment.

The Washington Marble Co. has closed its quarries which have been in operation near Eakle's Mill, Md., owing to the fact that the detth of the deposit makes operation at a profit impossib'e.

The Manchester Granite and Marble Co., Manchester, Ohio., has been incorporated with a capital stock of \$3,000.00, the incorporators being F. B. Tully, G. G. Kirker, J. H. Lowery, Oliver G. thridge and R. L. Gaines.

The Extra Dark Marble Co., of Gouverneur, N. Y., after having its plant shut down for nearly three months have again begun operations. Mr. Ole B. Fisher 13 the superintendent of the quarry.

C. E. Snannon, formerly an attorney of Duuth, Minn., is opening a large marble quarry in Indian Territory. It is claimed that the marble is of best quality for interior as well as exterior

At Gouverneur, N. Y., the New York Marble Co., of which J. J. Sullivan is treasurer, have leased some marble lands and have a gang of men busy quarrying. The stone is of excellent quality and in great quantity.

Mr. Duke F. Baxter, of Los Angeles, Cal. has been east to purchase machinery to be used in de-

# Chilled Steel Shot

Warranted Superior to All Other Abrasives for Sawing, Rubbing and Grinding Granite, Marble, Sandstone, or Any Other Hard Substances.

# **Granite Stain Eradicator**

Which we guarantee will permanently remove all Iron, Sap and Oil Stains from granite without injury to the stone.

We are positively the largest concern in this country handling Granite and Marble Polishers' Supplies exclusively. We sell Carborundum Emery Grains and Bricks, Grains and Bricks, Waddells and "Ox" Putty Powder, Pure Mexican Felt, Red Beach Plaster, Tampico Scrub and Steel Wire Brushes, Red. Blue and Brown Grits, Scotch Hone, Oxalic Acid, Selected Lump Pumice Stone, Combination Boxes for hand polishers of both marble and granite, etc., etc. Remember we positively guarantee the Quality of everything we sen. This always insures your getting the Very Best Goods that are manufactured.

> Satisfaction Guaranteed. Correspondence Solicited. NATHAN C. HARRISON, General Agent.

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veloping some of his marble property in California. He will erect a custom marble mill and finishing plant at Los Angeles and will handle marble from all parts of the world.

The Presbery-Coy-Kendall Co., New York N. Y., has been incorporated with a capital stock of \$50,000.00, for the purpose of minufacturing monuments, vaults, etc. The incorporators are: Clifton in Presbuy and Louis T. Coy Kendall, 169 Broadway, New York, Chas. C. Hunt, 2218 Avenue C., Brooklyn, and others.

The National Monument Co., New York, N. Y., has been incorporated for the purpose of manufacturing monuments, tombstones, etc., with a capital stock of \$15,000.00. The interporators are William Hall, Mandeville Hall, Geo. A. Mohlman, all of New York, Joseph Winterbothom and Chas. Dewey, of Chicago, are also interested.



MONUMENTAL YARD AND OFFICE OF GEORGE W. GROSE, AT HYNDMAN, PA.

# For the Retailer.

# The National Builders' Supply Association.

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JOHN J. KELLEY Baltimore, Md.	Vice President.
	Vice President
S. A. NORMAN	Vice President
	Vice President
	Vice President
н. Р. соок	···· Vice President.
M. A. REIB	Vice President
	Vice President
and the same of the same	Vice President,
B. L. GROVE	Vice President
	Vice President
C. P. FLATLEY	Vice President.
Green Bay, Wis. CHAS. H. CLASSEN	Treasurer.
Baltimore, Md. RICHARD KIND	Secretary.
Toledo, Ohio.	Assistant Secretary

Official Organ, ROCK PRODUCTS.

# **NEW JERSEY DEALERS.**

Second Annual Convention Indicates Growing Interest.

#### PRACTICAL WORKING RULES ADOPTED.

The Mason Material Dealers' Association of New Jersey, met at Achtel-Stetter's in Newark, N. J., Thursday morning, March 29. The business session was held first in one of the large halls and a banquet followed in the afternoon. The meeting was called to order by Mr. Challes W. Ennis, the president of the association, who congratulated the members on the progress they had made since their organization one year ago and pointed out the way to further usefulness. ago and pointed out the way to further usefulness.

Among those present were

Mason Material Dealers.

Ridgefield Park—Brewster & Son, T. M. Brewster and M. T. Brewster. Wanaque—Wanaque Lumber Co., W. C. Cabell. Jersey City—E. W. Conlon, E. W. Conlon, G. W. Conlon. Summit—George V. Muchmore, George V. Muchmo H. Rahman, Fred Muchmore. Hackensack—Hackensack Coal and Lumber Co., E. Blauvelt, D. D. Belless. Passaic—Campbell-Morrell Co., J. M. Campbell, J. W. Clinton. Long Branch—Edwards Lumber and Coal Co., Daniel Edwards. Asbury Dumber and Coal Co., Daniel Edwards. Asbury Park—Buchanon & Smock Lumber Co., George A. Smock, H. W. Smock. Somerville—Smith-School-maker Co., Selah Schoolmaker; Nickerson & Hop-per Co., E. Nickerson; Charles H. O'Neill, G. F. Farrell. Englewood—Tuttle Bros. J. E. Tuttle. Newark—Marcus Sayre Co., Henry N. Sayre, Wes-

Newark-Tomkins Bros., George W ley Bellis, Newark—Tomkins Bros., George W Tomkins. Plainfield—J. D. Loizeaux Lumber Co., J. D. Loizeaux. Perth Amboy—Sexton & Boltor, A. G. Bolton. Westfield—Tuttle Bros., W. E. Tuttie, Jr. Mulford—Mulford Coal and Lumber Co., Edwin Taylor. Patterson—Chris. Kelley, Christopher Kelley. Dover—Dover Lumber Co., E. M. Searing. Rutherford—Edwin T. Galloway, Edwin T. Galloway. Newark—James M. Reilly, James M. Reilly. Hoboken—Charles S. Schultz, Walter C. Schultz.

Manufacturers and Wholesale Dealers

New York, N. Y.—Rock Plaster Co, New York, N. Y., Charles Marsh Grover. Phil adelphia—Charles Warner Co., J. B. Vanderveer, Fred A. Daboll. Lincoln, N. J.—The Atlas M. & M. Co., Felix Oppenheimer. Philadelphia—White-M. Co., Felix Oppenheimer. Philadelphia—White-hall Portland Cement Co., Howard B. Green, Chas. P. Robinson. Hamburg, N. J.—New Jersey Lime Co., Walter S. Sheldon, Arthur E. White. Philadeiphia—Mr. Jones, Dexter Portland Cement Co. Easton, Pa.—Vulcanite Portland Cement Co., S. G. Babson, T. S. Young. New York, N. Y.—Rockland-Rockport Lime Co., Thomas Cumming, Chas. W. Trevall, Wm. F. Crooker, Northempton, Pa.—At. Troxell, Wm. E. Crooker. Northampton, Pa.—Atlas Portland Cement Co., two representatives; New York, N. Y.—J. B. King & Co., Col. Chas Allen

Newspapers.

Louisville, Ky .- Rock Products, Wm. L. Fen-

The report of the Board of Directors was next called for and read.

Second Annual Report of the Board of Director

To-day's meeting is the second in the history of this association. Our object in coming together, is to learn what progress has been made with the work of controlling shipments of building materi als to consumers by manufacturers and wholesal-ers; and to discuss and perfect plans for the car-rying out of the object which we are all interested

In the prevention of an unjust competition.

This industry, in which we are all engaged, is one of the last among the many industries of the United States, to realize the necessity for organization, and the benefits which follow well directed organized effort; therefore, it is well for one and all to realize that important results can not be obtained simply for the asking, that we must expect a certain amount of friction and antagonism to proposed measures, from interests directly affected, and we must expect that the progress which we hope to make will be slow but lasting when it is finally accomplished.

Your board of trustees have been insistent and persistent, in their effort to promote a better understanding in the trade; and to bring about a realization on the part of manufacturers and wholesalers of the unfair position occupied by them in competing with their own customers for the trade of the contractor and consumer. In so doing we have argued that this uncalled for competition not only demoralizes market conditions,

tition not only demoralizes market conditions, but it has beat down prices, and inflicted a heavy loss on dealers, lessening instead of returning substantial results to the manufacturer.

The effort put forth on behalf of the association by the committee on cement, while it has not resulted in the adoption of any positive rule by the Association of American Portland Cement Manufacturers, as will be shown to you in the report of our committee, nas nevertheless, we are satisfied advanced the object which we are after, and we have reason to feel that the principles which we have adopted as an association have taken hold, and that the manufacturers and wholesale dealers are beginning to realize that the forces back of are beginning to realize that the forces back of this movement of ours is something to be reckoned

Not only is this so, but the educational move ment which we have started is being recognized by retail dealers at other points, who are waking up to the advantages of organized effort, and are planning to perfect state and local organizations.

planning to perfect state and local organizations.

Educational Value of Work.

While this state association of ours is strong in its membership, it was agreed by the board of trustees that if it was not opportune, up to the present time, to attempt to enforce or apply the rules which have been adopted to control those manufacturers who have continued to indiscriminately solicit the consumers' trade.

This decision was not due to any lack of courage or want of faith in the loyalty of our membership, but it was considered a matter of good policy to continue to show our good will toward the manu-

facturers, and to use every possible effort to induce them to comply with the plain and reasonable request; that the trade of the consumer should belong to the retail dealer, and should not be subject to any other competition except that which ex ists between local dealers

We realize that much of the trouble complained against is due principally to the desire of the larger class of contractors, to secure their material at the lowest possible price, and to an undue desire on the part of the manufacturer or wholesaler to make a sale in bulk for large contract jobs

If the manufacturer and wholesaler would a opthe policy which we are urging, when solicited for prices by such contractors, no loss in trade could possibly occur to them, as the same quantity would be consumed if the local dealer was allowed to make the sale. While it may appear to each of them individually that an opportunity was being lest to make a sale, in the aggregate sales for the year the same output would be made and the same quantity would be consumed, no more and no less while the price realized by the local dealer would enable him to do business with less risk and (no sure to the manufacturer and wholesaler the prompt settlement of their bills.

#### Sell to Dealers Only.

Many of the wholesale dealers and manufacturers have realized this fact, and several of them have adopted the rule to sell only to dealers, there are some few, however, among the larger manufacturers, who refused to be governed by any set of rules except those which they wish to make for themselves, and it is with them that we must recken.

The information which will be presented to you in reports to-day will give the names of the companies referred to, and will show you the inconsistency of the position which they take in regard to this question of sales. It will enable us to arrive at some definite plan of action to be put into effect during the coming year.

The individual manufacturer puts it up to their association to act upon our proposition, and their association refers it back again, with the sug-gestion that we deal with the individual; in other words they have adopted the famous policy of a certain railroad corporation, which became a by-word and reproach in this state.

The object to "Delay, Linger and Wait," is only too plain, and when they individually and collectively as an association ignore a business proposi-tion presented by representative business men in a most respectful manner, as they have done for the past two years, the time for exchanging fur-ther courtesies has, in our judgment, come to an

#### One Plan of Action.

The one plan of action left to us must be therefore carried out without further consideration to them either individually or collectively. They tell us that as an association they can not control their own membership, and at the very meeting at which this decision was arrived at, they frame and put into effect by unanimous vote a reduction in the trade discount from 2 to 1 per cent, and other changes in the trade rules which imposes

greater burdens upon the dealer and consumer.

The time, in the judgment of your board of trustees, has arrived when the line shall be drawn and a stand made for the enforcement of the rules which we have adopted.

#### Associations to Co-operate

It is up to this association to perfect a plan of co-operation with the New York Masons' Material Supply Association, with the Connecticut State Association, and with the Ohio and Illinois State Associations, and with the Onio and Illinois State
Associations, and with such other local and
state associations as may be or anized
and take issue with one or moe of
the largest companies for selling consumers.
We must take the bull by the horns
and bring about a test of his strength with ours,
even though we may meet with a throw-down on
the first struggle we can have another and still the first struggle, we can have another and still another go at it.

The enforcement of the rules which we have adopted as a body will impose a severe lesson up-on any manufacturer or wholesale dealer against whom they are put into effect, of that we have no

These rules have been criticised severely by rep resentatives of the manufacturers, who aver that they can not be enforced, but the severity of their criticism does not exceed that expressed by the retail dealer against the wholesale dealer and manufacturer for their unbusiness-like competition, and we have the best of reason to believe that the rules can, not only be enforced, but through their enforcement we can control the largest manufacturer. As we have no other means whereby we can protect our business interests, our protests being of no avail, we must follow the methods employed by the lumber dealers, and if we stand united there is no reason why we can not secure the same result.

#### What the Lumber Trade Has Done.

In the lumber trade the same condition which we complain against was rampant fiften years ago, and a few dealers in this state whose business was being rapidly destroyed came together and decided that organized effort alone would correct the abuses which had crept into their trade. They adopted rules similar to those which we have adopted and their association was ridiculed, but ridicule gave place to respect and respect to fear of the penalty. The success which has attended their effort has spread all over the whole country, so much so, that no trade is better organized today or enjoys a greater protection.

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An outline of a case was submitted to you in
Bulletin No. 4 issued during the year, in which it
was shown that a manufacturer had quoted a price
of 5 cents less per barrel to a mason contractor
than that quoted to the local dealer, who asked
for the quotation at the request of the contractor,
and the company in justifying itself used the argument, that if the dealer had been one of their
customers such a sale would not be made; or
words to that effect, virtually threatening to sell
to consumers in the territory of dealers who were
not customers of that particular company.

This spirit of arrogance oversteps all bounds; and is only equalled by the action of another company in selling to a customer of one of their own customers, who had to use the retail dealer's money, or at least the money which v.s. due to the retailer, to pay for the cement shipped to him. In this case the dealer had during the past ten years, like the majority of you, advertised and pushed the sale of this particular brand, creating a pretance for it in his home market, and this company then steps in and makes capital out of the dealer's work, ignoring his right to a trade which by all rules of business belonged to him.

The correspondence in these cases is most interesting and will be submitted to you. Such action can not be upheld by any class of men and calls for the strongest condemnation.

It is against such an action and such a condition of trade affairs that we as a body justest, and any rule of action which we may take to correct such unbusiness-like methods are instiffable, and will certainly find favor with right thinking business.

It is an old and well recognized axiom that trade follows the lines of least resistance, taking a rattern from natural laws.

#### A Change Must Follow.

Up to the time of the formation of this association no resistance whatever has been offered, and the result is shown in the indiscriminate solicitation of orders from dealers and consumers alike by manufacturers. Now that we have organized curselves and have announced to the trade that such methods and such sales are looked upon with disfavor, and that we purpose using our individual strength to resist such encroachments, a change is bound to follow.

So long as protests against sales to consumers was confined to individual dealers the wholesaler and manufacturer paid little or no attention to them, but went on his way soliciting further orders of the same kind, but since all of these protests have been concentrated and put into one vigorous protest, backed up by the organization, attention has been given to our complaints.

There are many signs to know that such is the case. Some manufacturers in placing their advertising have adopted the motto: "We sell to dealers only;" others are exercising a great deal more care and judgment in the solicitation of orders, and some orders which have been accepted from consumers have been placed through merbers of our association and a proper percentage allowed, and even those who have been most eager for the consumers' trade are using more caution and care in accepting orders.

These facts indicate that progress is being made

These facts indicate that progress is being made and that the educational feature of the work which the association has undertaken is beginning to bring results.

#### Will Exercise Patience.

We must still exercise patience, but at the same time continue our effort and by our action show that we are determined to protect our trade interests from encroachments and from this unjust competition.

With the organization of a few more state and local associations the strength which will be concentrated into one working force with the same object in view, can be relied upon to effect the reforms sought and correct the abuses complained against.

We are going to make greater progress and meet with greater success, because in adopting the principle, that if the manufacturer wishes to sell cur customers, they can not expect to sell to us, we have built up a strong wall, which will offer a positive resistance henceforth to the use of unbusiness-like methods in the trade, and the manufacturer will recognize this force and gradually conform his business policy along the line as already indicated, where the least resistance is to be met. We must therefore resolve upon a settled policy

We must therefore resolve upon a settled policy and agree henceforth to treat every sale made to a consumer by a manufacturer not only as an unfriendly action but as a competition for trade which must be met if we are to continue in business. Even among ourselves as competitors a reasonable trade discount is allowed on such orders as we find it necessary to place with one another, and if a dealer were churlish enough to refuse a neighboring dealer a trade discount, what position would be occupy in the business? Why should we treat a manufacturer or wholesale dealer who lives by our custom with any more courtesy than we expect from one another, and why should they refuse the same courtesy.

The trade of the customer, large or small, rightly belongs to the retail dealer, and not the meagre trade of the small consumer, who might want a few barrels which evidently certain manufacturers think is good enough for the retail trade we have. As dealers we have an undoubted right to accept as a notification from any manufacturer who solicit orders from consumers, or makes shipments, that they prefer the trade of the consumer to that of the dealer, and we should permit them the privilege which they ask for.

to that of the dealer, and we should permit them
the privilege which they ask for.
To meet the competition of this class of manufacturers, let us individually endeavor to bring
about an understanding with those manufacturers
who will stand by us, by which we may be able
to meet this competition even if it is done without
one cent of profit.

#### Reciprocity the Slogan.

Let us stand hard and fast by those who stand with us, and show to our associate members that the principle which we are advocating is a true one, as by so doing our list of associate members will increase in number and influence, and beneficial results to all will follow, and before long we will have established a ruling which will be recognized in the trade, and will make sales to consumers by manufacturers or wholesalers not only unpopular but decidedly unprofitable.

It is gratifying to turn from the cement part of

It is gratifying to turn from the cement part of our business to the other commodities which we hendle, because we can report most satisfactory progress, not only that we have the hearty support of the drain pipe manufacturers, but we also have the support of the manufacturers of lime, plaster board, lath, terra cotta, and fire clay companies.

The problem of controlling or bringing about a change in conditions in the matter of brick shipments is one which offers great difficulty, and we must exercise good judgment in the placing of our orders, and urge manufacturers with whom we deal, to confine their sales to dealers, until some feasible plan can be formulated for the regulation of this branch of our business.

#### Membership Increasing.

It is gratifying to report that our membership has been increased by twelve new active members, and that nine new associate members have pledged us their co-operation and support, the roll standing at the present time ninety-one active members and seventeen associates.

We wish to lay particular stress on the duty which every member of the association owes himself and to the association, to appreciate the full importance of giving preference to the manufacturers and wholesalers who have recognized our association principles and have taken up associate membership. Their support is of very great value to us, and their recognition of the principles which we have adopted is deserving of our best encouragement, and we hope that every member will at some time during the year, all other things being equal, favor our associate members when placing orders.

A true spirit of reciprocity can not fail to insure a return benefit, not only by increasing our list of associates, but also by adding to our strength in securing their co-operation and endersement. It is for each member of the association also to add to the strength of this association by urging neighboring dealers to take up membership.

There are perhaps an equal number of dealers outside of our membership in different parts of the state, who should be members, and if each one of us will take the trouble we can bring them in, and this should be done, as they will profit by our success, and we will profit with their co-operation. Copies of the bulletins issued by the association from time to time, and invitations urging such dealers to take up membership have been mailed to them, and in addition to this we would ask for a personal effort so that none may complain that the action which we contemplate taking has been unfair or unreasonable.

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unfair or unreasonable.

Up to the present time they have enjoyed the same benefit that we have, who have spent our money and given our time in building up this association and in advocating its principles, and have enjoyed all the rights of legitimate dealers.

It is contemplated to issue to the wholesale and jobbing trades during the year a bulletin containing a list of our membership and the towns in which their trade covers, with the announcement that all other towns in the state are open trade and not under our protection, putting it up to the dealers at such points to protect their trade by their own individual effort.

In closing this report we look forward to the day, which we believe is not far distant, when all sales of building materials will be made through the dealer, because we believe that the majority of those engaged in the manufacturing branch recognizes the fact that the consumers' trade does rightly belong to us, and that it can be catered to and supplied more advantageously by the local dealer, whose equipment enables him to do the business far better and on a safer basis than the manufacturer or wholesaler can possibly do.

We expect that similar conditions will obtain in

We expect that similar conditions will obtain in the mason supply business to those in the lumber industry, where it is almost an impossibility for a consumer of lumber to buy direct from the manufacturer or wholesaler, and where indirect sales are made only through scalpers, whose chief stock in trade consists in selling to consumers at a cost slightly below that which the local retail dealer would sell, and whose practice is to furnish short count or inferior grades.

With the spread of the movement for the organization of local and state associations, advocated by delegates from this association at the meeting of the National Builders' Supply Association held in Philadelphia during the present month, and which plan was adopted, to be made part of their policy during the present year, we look forward to a combined movement in the various states which will enable the retail trade to advance association principles, and control the marketing and shipment of cement, and of other commodities which enters into the mason supply

#### Best Possible Plan.

It is certainly gratifying to all of us to realize that the plan of procedure and the line of action which we have adopted as a state association has been recognized by such a body as the Nation I Builders' Supply Association, and it speaks well of the work which we have undertaken, to have our plan adopted as the best possible plan to be followed in order to bring about a change from the conditions which we protest against, to one which we know will enable us to secure a reasonable profit on the volume of business which comes to each of us.

Gentlemen, we think this association has done itself credit and that our time and labor has been well spent and that we all stand in a fair way of receiving the benefits which we have hoped and worked for; there can be no failure if we continue to use push, pluck, and perseverance.

Following this report quite a good deal of discussion took place. The directors were congratulated upon the thorough manner in which they performed their duties.

Mr. John M. Campbell, of Passaic, N. Y. read a very interesting paper which we print in full, as it contains much matter for reflection.

# The Mason Material Business, From the Dealers' Point of View.

BY JOHN M. CAMPBELL, PASSAIC, N. Y.
Trade is defined as "An exchange of value for value." The customs and requirements of all time that we have any record of, have decreed that trade be conducted by three separate and di-

finct classes of workers; the producer, the dis-ributer, the consumer; or, as a mas n material dealer should express it, the manufacturer, the mason material dealer, the contractor.

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This custom has been modified somewhat, how ever, in recent years, by the fiercer competition of our strenuous modern business methods, in that, wo of the classes often ignore the other. two of the classes often ignore the cther. That is the producer passes over the head of the distributer and sells direct to the consumer, taking unto himself the dual role of produce and distributer and this trade that the manufacturer takes from the dealer is the cream of the business. It is said that competition is the life of trade, but competition between the manufacturer and the dealer, is death to trade. Fair competition is all right; it stimulates; is an incertive; mak sus keen for business: warms us up to our work.

al right; it stimulates; is an ince tive; mak s us keen for business; warms us up to our work. Competition with the class from whom we be

is unfair competition, and such compet tion also warms us; and it may become so red het that like a raging fire it would destroy us. Should such competition continue? Have business requirements so changed that the dealer should be eliminated?

To these questions we answer, No. If it were possible to transact business with two of the classes of workers instead of three, we would say cut out the dealer, and let him become either a producer or a consumer, but, conditions have ro so changed, and business can not be carried on without the retail dealer.

#### The Dealer Necessary.

It is still absolutely impossible for the manufacturer to supply his goods in such quantities and to deliver them at such times, and at such places as the needs of the consumer may require.

The great volume of business still depends upon all three workers, any one of which is just as important as the other, none being able to profitably exist without the others.

The retail mason material business is a very necessary and important industry in eve y live community.

community.

For the accommodation of the public there mus: be maintained yards, warehouses and equipment for the storage, handling and delivery of all kinds mason materials.

With these conditions existing, is it not manifestly unjust, that the manufacturer should sell direct to the consumer, keeping to himself the c eam of the trade, and kindly permitting the dea'ers to fight it out among themselves for what is left? Is it not unjust that they should sell to

us and then also sell to our customers?

Is it surprising that dealers all over this country, men with large amounts of capital invested in the trade, firms equipped and ready to do a big business, and seeing that business taken by the manufacturer from whom they buy, is it surprising that they arose to the situation and protested at the injustice of it, and decided to organize a movement for the preservation of their busi-

## Associations Are Needed.

They realized too, that this is an era of associated work, and that if the dealers organized associations, all working together on the same plan, and for the same object, good results would

be sure to follow.

As a result of these new con itions, as ociations were formed, and we now have a national association, with the leading dealers of man? states as members.

There are also a number of state asso iation: There are also a number of state 2830 lation; already formed and working. Dealers in many other states also are organizing, so that soon we will have associations in almost all of the state; all working harmoniously together.

Speaking of our New Jersey Association of Material Deale s, we were forced to organize on account of the intelerable trade conditions existing

count of the intolerable trade conditions existing in this state.

We have an association that stan's fir hon rab'e dealings between competitors and for a fair

profit for the goods we sell. We are organized for no selfish purpose, nor for the special benefit of any particular person, firm, or corporation, but we are united for the good of every mason material dealer in this state.

#### Organized for Laudable Purpose.

This association movement is not organized for the purpose of stifling competition, limiting production, or restraining trade, but is organized with the desire to promote the proper and harmonious business relations that should exist, and for the advantage of the manufacturer, the dealer and the contractor.

To the contractor we say, we want you to buy from us, and we will give you value for value.

The progressive deale keeps abreast of the times; he anticipates every want of the builter. He does not follow, he leads his customers.

Such a dealer carries a compete stock; he knows his goods, and has the facilities for handling and his goods, and has the facilities for handling and de ivering them. He is famil ar with all local conditions and this with his knowledge of business, places him in the position of being able to deliver his material in such quantilies, and in such places, and at such times as the contractomay specify, and for this service, he will charge no more than that service is actually worth.

At the end of the season, if the contractor who buys direct from the manufacterer, will figure the time lost; delays in cars in transity cost of

ouys direct from the manufacturer, will figure the time lost; delays in cars in transit; cost of storage sheds; cost of unloading cars and storing mate ials; cost of carting from sto age to the buildings as required by the progress of the work. he will find that if he had given his business to a progressive dealer, he would have be n saved much detail work, and worry, and would not have lost a dollar of his profits.

#### Get in the Game.

To the dealer we say: "The strength of our association is in the co-operation of its membe s."
Our association has progressed and gained much

strength during the past year.
Unfair competition has continued, however, by

some of the manufacturers Your board of trustees has not deemed it wise to retaliate by any arbitrary action, for a plan has been mapped out which we believe will be effective.

An educator has stated that we have too many "learners" in this world, and not enough "lifters."
In our association we want more lifters and
fewer l'arners. Every member should help and not lean on a few. We want every member to try to get in new members.

Our state association is helping to form other state associations, and in a very short time, the result should be, that all manufacturers of good; we sell, will know our strength and they, without the only way to properly carry on trace, is that of the established custom: From the manufacturer to the dealer, and from the dealer to the con-

Mr. Campbell was highly complimented up n e manner in which he handled this very inteesting subject and a vote of thanks was giv n

The report of the Committee on Resolutions a' the following report which was adopted by a rising vote.

WHEREAS, Announcement has been rec ivad of the bereavement which has come to our respected and honored associate, Mr. Horace P. Cook, of the Cook & Genung Company, Newark, in the ceath of his daugther; be it

Resolved. That the dealers present at this Annua' Conclave of the Mason Ma'e'ial Deal's' Association of the State of New Jersey express their sincere sympathy to their afflicted member, and to his family in this hour of their sorrow.

The treasurer's annual report was next called for and read and a vote of thanks given him for the able manner in which the affairs of the second ciation had been handled.

The Committee on Nominations, corposed of Henry W. Sayre, chairman; George Muchmare and Isaac W. Searing, made their report, which was unanimously adopted and the following effice s declared elected for the ensu'n; year:

#### Officers.

Officers.

President, George W. Tomkins, Tomkins Bros, Newark; vice presidents, James P. Hall. Jered City. Charles Agnew, Paterson; tressurer, Howare P. Cook, Newark; board of trusdess for a term of three years, Christopher Kelley, Paterson; Walter C. Schultz, Hoboken; Ambrose Tomkins, Newark; Danied Edwards. Ling Branch; J. V. D. Beckman, Princeton; Selah Schoonmaker, Somerville.

The retiring officers, President, Cha les W. Enis and Treasurer Ambose Tompkins were both extended votes of thanks by the as ociation. The following trustees hold over, for one year: Isaac W. Searing, Dover; George V. Muchmare, Summit; J. C. Richardson, Trenton; L. L. Heidrit er. Elizabeth; W. E. Chambers, Ogdensburgh; Am-

brose G. Bolton, Perth Amboy. The following Sayre, Newark; G. F. Barrett, Atlantic City; J. M. Campbell, Passaic; P. H. Welsh, New Brunswick; T. M. Brewster, Ridgefield Pack, and George A.

Smock, Asbury Park.

Mr. James M. Reilly, of Newark, the secretary, will be continued in that office. He has made a good record and is popular with all the ment-

The meeting now adjourned downstaires to t'e banquet hall where the committee, composed of: Horace P. Cook, Newark; Charles Agnew, Paterson, and John M. Campbell, arranged a sumptuous feast.

# MENU

Oyster Cocktail

Olives

Pickles

Mock Turtle Soup a l'Anglaise Planked Shad a la Maitre d'Hotel New Potatoes

Tende loin of Beef, Mushroom Sauce Potato Croquetie

Punch

Roast Philadelphia Turkey, Cranberry Sau e Mixed Salad

Ice Cream Cheese

Strawberries Crackers

Cafe

The following resolutions were printed on t'e card and two mostoes one for manufacturers, "We sell to dealers only," and the other for retailing, "We will not deal with competitors."

#### Resolutions.

That a good menu deserves a good appetit, and a good appetite should have good digestion, so may appetite and digestion wait on all present at

That harmony, good will, and co-peration shall

That the consumer's tra'e belongs to the retailer, the wholesaler is entitled to the first profit, but the retailer wants the trouble of handling the order and a reasonable compensation for his time and investment.

That the manufacturers of cement a e particularly requested to comply with the p.ece ing res-

That we appreciate the stand taken by the mauufacturers of drain pipes in protecting the interests of the local dealers.

That we extend cordial good wishes to the National Builders' Supply Association and with them continued success and prosperity.

That we believe strength of organization will be best demonstrated by the formation of local and state associations.

and state associations.

That a plan of mutual, co-ope ation between state associations will enable the realitrade to insist upon a just measure of projection in all branches of the business.

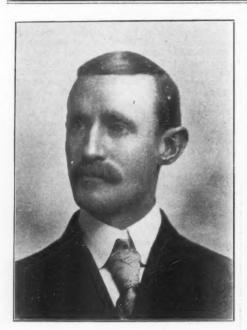
That every wide-awake retail dealer should be lieve in association methods.

We want every retail dealer in New Jersey to the the association and avery retail dealers.

join this association and ever, retail dealer n the United States to become members of a 10 a or state association.

That one long pull, one strong pull, and one pull all together, will adjust the present trouble and make trade conditions more sa isfactory all

George W. Tomkins, who had been ele ted pre-George W. Tomkins, who had been ele ted preident of the association earlier in the day, presided at the banquet. Among those who made
peeches were R. W. Leally, of Philadelphia F
H. Johnson, president of the Mason Material Deal
ers' Association of Connecticut; The direct
Earley, of the same association; E. I. A wather,
president of the State Business A sociation of
Connecticut; J. D. Cray, secretary of the Mason'
Building Material Association of New York; William P. Morton, of the Rosendale Cement Conpany, of this city; C. Weber Jones, of Philadelphia; Chistopher Kelly, of Paterson, and John
M Campbell, of Passaic. All of the steaking
agreed that the interests of the manufacturer and agreed that the interests of the manufacturer and



T. W. SFINKS, VICE PRESIDENT NATIONAL BUILDERS SUPPLY ASS'N, COVINGTON, KY.

the dealer were best served when the manufac-

turer sold to the dealer only.

The great demand for cement was disc seed, and it was asserted that the present was a cemen as well as an electrical age. In poof of this was cited the great demand for concrete buildings in all parts of the country. It was sail by several of the speakers that the demand for cement last year exceeded the output by almost 3,000,000 barrels, and that the supply this year would not

equal the demand.

Over one hundred sat down to the banqu t was heartily enjoyed by all those present. A sorches ra of Mexican musician; dres ed in their native costume, sang and danced. Some of their songs were in their native tongue and other were popular songs of the day in Evilsh. Rock Products was the only paper replement at the convention and was declared the fifted locan.

#### Will Handle I me and Comer t.

LIGONEER, IND., April 2.—Caldwell Brothers, of this city, well known grocers and bakers, have added to their present business the handling of cement, lime and salt.



MURRAY, VICE PRESIDENT NATIONAL BUILD ERS' SUPPLY ASS'N, ALLEGHENY, PA.

#### Will Manufacture Building Material.

New York, N. Y., March 14.—The Koukreta Manufacturing Co. has been organized in the Borough of Queens for the purpose of manufacturing and dealing in lime, cement, brick, etc. The incorporators of the firm are: William Cuselyea, Borough of Kings, N. Y.; Charles B Snowdon, Eberhardt A. Nicholson and George P. Davis, all of the Borough of Queens, N. Y. The capital stock is \$10,000.00.

#### Consolidation of Firms.

Indianapolis, Ind., March 13.—On February 1 a consolidation was effected with the Consolidated Coal and Lime Co. and the Indianapolis Motar and Fuel Co. The business will be conducted under the latter name with the following officers: ander the latter name with the following omcers:

A. E. Bradshaw, president; Albert Goepper, vice president; Charles Pigman, secretary; W. H. Whittaker, treasurer. The directors are Augu t M. Kuhn, A. E. Bradshaw, W. H. Whittaker. Mr. Kuhn, the oldest dealer in this city. retires from active service and the new firm less than five years old now claim to be the best equipped building material in Indiana. material in Indiana.

The Broughton Mantel Manufacturing Co. has been organized at Memphis, Tenn., to manufacture wood mantels with a capital stock of \$25,000.00. The incorporators are Memphis business and professional men.



8 A. MORRISON, VICE PRESIDENT NATIONAL BUILDERS' SUPPLY ASS'N, GRAND RAPIDS, MICH.

The John R. Carrenter Co., has been inco porated at Jamaica, N. Y., for \$600,000 00. The incorporators are John R. and Alexander H. Carrenter, Jamaica, N. Y.; Fre well D. Carpenter, Rockville Center, N. Y., and others.

# Sells Builders Supplies.

FERDINAND, IND., April 2.—Mr. Ben Seufert, of this city, besides being in the marble busines; is an extensive dealer in building material, handling about one thousand barrels of lime per year, eight hundred of cement and about five carloads of plaster. Mr. Seufert also constructs cement and concrete work of all kinds.

#### in the Far North

New Grascow, N. S., March 21.—Nova Scotin has long been a neglected spot, but is now coming to the front. The Standard Drain and Pipe Co. has in operation now in New Glasgow, Nova Spotia, a factory and are producing from our local shors drain and sewer pipe equal to any made anywhere. Our deposits of china and pottery clays offer the greatest chance for some one to come along and manufacture our table and sanitary ware. We have the raw material, and we want the manufactured goods. Who will come and make them for us?



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D L. MATHER, VICE PRESIDENT NATIONAL BUILDERS' SUPPLY ASS'N, BICHMOND, IND.

The Century Tiling Co., of New York, N. Y., has been organized to manufacture tiles, building naterials, etc. J. Le Moyne Danner, Jr., Frederick H. Cunningham, David G. George, all of New York, are the incorporators. The capital stock is \$100,000.00

The Audley Clarke Co., of Brooklyn, N. Y., has The Audiey Clarke Co., of Brooklyn, N. 1., has been organized with a capital stock of \$250,000.07. The incorporators are: Audiey Clarke, John A. Farrar, H. A. Robichon, all of Brooklyn. The company will deal in all kinds of building ma-

The Tri-State Land Co., of Fairmount, W. Va., has been incorporated. The capital stock is \$25,000.00. The company will manufacture and der, in general building materials. W. B. Bartlett, Jas. A. Meredith, H. F. Colebank, E. A. Billingslea and Clyde S. Holt, all of Fairmount, are the incorporators

The Kahl-Hepp Brick Co. has been organized at New York City, with a capital stock of \$100,000.00. The company will do a general builders' supply business. Louis P. Sherrer, East Orange, N. J.; James Hess, New York City; Robert Livingston, New York City are the incorporators.



H. B. LYMAN, MEMBER EXECUTIVE COMMITTEE NATION-AL BUILDERS' SUPPLY ASS'N, LA FAYETTE, IND.

#### Vast Salt Industry of California.

One of the great and growing industries of California to-day, is the manufacture of salt. It is estimated that the present annual output reaches about 110,000 tons. So far as the resources are concerned, they are simply exhaustless, since the source of supply is the Pacific ocean. In this conrection it may be stated that just at present the market demand for salt, great as it is, is much less than the capacity of supply.

In several places in Southern California salt is manufactured in more or less quantities. However, the great scene of salt making is located along the winding shore lines of the Southern arm of San Francisco Bay in both Alameda and San Mateo Counties—on the east and west shores.

Here are located within a comparatively small area, some 25 or more salt works. Prominent among these salt works may be mentioned the following: California Salt Co., Union Pacific, Continental, American, Carmen Island, Crystal, Pioneer, Alameda, Russel, Mount Eden, Leslie, West Shore and Redwood City. Those mentioned are among the largest. Besides these are a number of smaller companies. The total output of all these manufacturers will reach nearly 100,000 tons annually. They constitute the great source of supply for the entire Pacific Coast.

The great natural deposits of rock salt found in many localities in the vast region west of the Rocky Mountains, commercially speaking, are not of any special value. This is due generally to their remoteness from distributing markets, and necessarily to the high cost of transportation. Only for a small local demand for ranchers the yield of these deposits is too insignificant to cut any figure in general salt statistical records.

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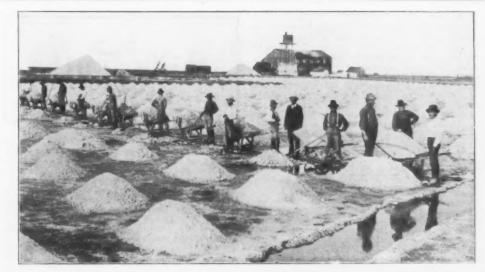
The immense quantities of salt consumed on the Pacific Coast is derived from the sea by solar evaporation in bulk limited only by the demand. The expense of evaporated salt is only one-fifth of the lowest rate of transportation on rock salt from the nearest source of supply to the most accessible ocean port.

As previously stated, the localities that enjoy a practical monopoly of saline production on the whole coast—in fact, in the United States—is the southern shores of San Francisco Bay. These points possess certain peculiarities in the lay of the land, which, united with climate and a favorable nature of soil, combined to render the locality especially adapted for this particular industry.

There are protracted intervals of cloudiess skies,

There are protracted intervals of cloudless skies, and the low humidity, and high temperature all favor rapid evaporation; while the soil—a stiff clay—is admirably adapted for levees and constructing water-tight reservoirs. The lands would be all submerged at high tides but for the levees that prevent.

The highest point in all these lands, two miles or more from mean tide level, does not exceed four feet; the low attitude allowing the reservoirs for



VIEW OF THE WORKS OF THE CONTINENTAL SALT CO.

the most part to fill with sea water by gravity alone. Besides all the wide stretches of the bay is contaminated by no considerable affluents to dilute with supplies of fresh water the strong saltiness which comes in with the sweeping tides of the ocean.

the ocean.

Similar processes are generally used at all these great salt making plants. The sea water is run into great reservoirs, vats, ponds, and other wide and shallow receptacles, where it is very frequently tested by the solometer, and other instruments. All the impurities are, in this manner, allowed to settle and are extracted in various reservoirs

All the impurities are, in this manner, allowed to settle and are extracted in various reservoirs and ponds built for such purposes, until finally all that remains is the salt pickle, or strong brine, which is pumped into the vats, standing several feet above the surface of the ground; and it is in these vats that the salt is made. The result is that the salt thus manufactured comes out clean, sweet and marvelously pure. No artificial means are used to insure the snowy whiteness of the product which may be said to emphasize the purity of the product.

rity of the product.

Experienced judges have pronounced the salt produced by these great works near San Francisco unsurpassed for purity and strength by the article made in any other part of the world; while the supply can be augmented indefinitely—sufficient to the markets of the continent. Repeated analysis of salt thus produced around San Francisco are as follows:

Insoluble matter																					0.011
Sodium sulphate				0	0	0	0	0 1		0	0	0	0	0		0	0	0	0		0.262
Magnesium chlor	ide	3	٥	0		0	0					0								9	0.115
Calcium chloride				0	0	0		0 (	 	0			0		0	0					0.260
Sodium chloride	sa	lt	0	0			0	0 0		0		0			0			0		. 1	99.352

One of the largest and best equipped of the many corporations engaged in the salt manufacturing business in California is the Continental

Co. This company has thirty immense reservoirs covering 1,000 acres. This company has constructed first and last twelve miles of levees, 2,600 feet of flumes, and 7½ miles of ditches. A largo mill well equipped with the best machinery for washing, drying, grinding, sifting and bottling the finished product is a prominent feature of the works. Twenty Dutch wind mills and two Chinese rumps raise altogether 200,000 gallons of brine each minute.

Another immense salt making plant is owned and operated by the California Salt Works. This is perhaps the largest evaporating salt works in the whole world. The annual output is immense. Among the other large works is the Union Pacific Co.

Co.

Viewing these great salt plants from a distance one is reminded of the Egyptian pyramids, for the pyramidal piles of salt, each containing perhaps a thousand tons, rise in all their snowy whiteness at intervals over wide stretches of level surface, and make a striking contrast with the brown earth hard by and the green waters of the hay beyond

hard by and the green waters of the bay beyond.

California not only produces an adequate supply for home consumption, but furnishes the markets for the entire Pacific Coast. No salt to any extent is shipped from abroad. San Francisco alone furnishes a heavy and never failing demand, while great quantities are shipped to Oregon, Washington and Alaska. The immense fish canning establishments of the Northwest and reat packing houses, create a great and constant market. Besidee, salt is shipped to British Columbia, Japan, China, Australia, Hawaii, the Philippine Islands, Mexico, Central America, South America and other foreign countries. Every year the demand abroad increases

the demand abroad increases.

During the year 1903 the total salt output of California was:

Quantity in tons.	Value.
Alameda County 76,877	\$143,605.00
Colusa County 18	360.00
Inyo County 300	2,400.00
Los Angeles County 8,000	20,000.00
Riverside County 10,000	20,000.00
San Mateo County 7,700	25,000.00
Totale	2011 001 10

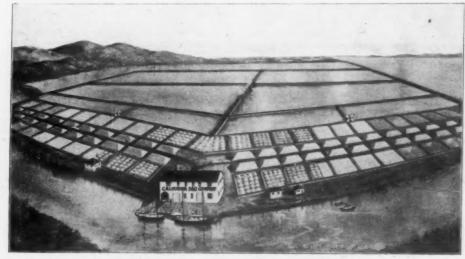
The figures for 1904 and for ten months of the present year, are greatly in excess of the above—showing an augmenting supply and demand

showing an augmenting supply and demand.

Almost all of the output of the salt works on the bay is sent to the Orient, to South America, and a large part of it to Russia; and it is with the idea of entering actively into the competitive field that the new plant has been ordered by the California company.

#### Making Changes and Enlarging.

SALT LAKE. UTAH. March 16.—The Beck Salt Co., has just made arrangements for the erection of a salt refinery at Kessler's, on the San Pedro. The cost of the new plant will be \$25,000.00, but it will be so arranged that it can be increased to a \$100,000.00 plant, when it is desired. The outlook for this company, which is an independent organization, is very fine, and they look for a big year.



BIEDS EYE VIEW OF THE CALIFORNIA SALT CO.'S WORKS

#### Plenty to Do.

The American Mosaic and Tile Co. have been in business about nine months, but in this short period have had so much work to do that they have been compelled to increase their capital stock.

They have just completed work on the new armory building, Louisville Ky., and are now working on several large contracts, among which are the new passenger depot at Owensboro, Ky., of the Louisville, Henderson and St. Louis railroad, the Belknap office and warehouse building at Louisville. They have other contracts for the Welssinger-Gaulbert Annex Apartment building, the new synagogue, the Sacred Heart Retreat, all in Louisville, and many others which will keep them busy for some time

#### Will Increase Brick Output.

Coffeyville, Kan., March 15 .- Preparations are COFFEYVILLE, KAN., March 15.—Preparations are under way at the plant of the Standard Vitrified Brick Co., to greatly increase its output. The present capacity of the plant is nearly 150,000 brick per day, but with the added improvements this will be at least doubled. Among the improvements to be made is the construction of a new kiln with a capacity of 300,000 brick. Aside from this machinery will be added, and when completed it will be one of the best equipped plants of its kind in the country. The increasing demand its kind in the country. The increasing demand for their output has necessitated these changes, and they will be compelled to put on an extra force to take care of their orders.

#### Purchase Additional Property.

ALBANY, N. Y., March 6.—The capital stock of the Newton Fire Brick Co. has just been increased from \$100,000.00 to \$350,000.00. This has been done in order to meet the expense of a number of changes which are to be made in the company's plant. The company has purchased five acres of land, on Van Rensselaer Island, which contains modern buildings suitable for their operations. Much equipment and other changes will be made so that the output will be very materially increased. The contracts on hand now are sufficient to keep the plant in operation for some time. keep the plant in operation for some time.

#### Where Popular Pavers Are Made.

The Coffeyville Vitrified Paving Brick Co., of ffeyville, Kan., control five plants located at e following places: Coffeyville, Cherryvale, Inthe following places: Coffeyville, Cherryvale, In-dependence and Chanute, Kan., and Denton, Tex. The output of these combined plants is quite large and the popularity is steadily increasing for their vitrified pavers. About five hundred hands are given employment and the outlook is quite flatter-

#### Big Slate Industry.

SAN FBANCISCO, CAL., March 12.—According to a report issued a short time ago at Washington, C. C., by the Geological Survey, California is the only state that produces magnesite, which is a only state that produces magnesite, which is a native magnesium carbonate, composed of 47.6 per cent magnesia and 52.4 per cent carbon dioxide. During 1904, the quantity of crude magnesite produced was 2,850 tons, valued at \$9.298.00. For 1903 the quantity reported was 3,744 short ton crude, valued at \$10,595.09, equivalent to 1,361 tons calcined, worth \$20,515.60.

The demand for both crude and calcined was

The demand for both crude and calcined magnesite on the Pacific Coast has heretofore been somewhat limited, and prohibitive freight rates have thus far prevented shipments to the East. Oregon and California consume the entire native production. Other states are dependent on imported magnesite. ported magnesite.

Capt. Wm. M. Morris, of Pueblo, Col., has dis-overed a new process for street paving. It will covered a new process for street paving. It will cost, it is claimed, about one-third less than asphalt or vitrified brick. A plant is to be erected at Pueblo for the manufacture of vitrified and other brick, and a company will be organized to con-

# New Building Material Organization.

New York. N. Y., March 9.—The Reinforcement Supply Co. has been organized here with a capital stock of \$50,000.00. All kinds of building material will be handled. The directors of the new company are: W. G. and E. G. Snow, of Montclair, N. J., and P. E. Bertin, of Brooklyn, N. Y.

# Side Talk.

# Rubber Quarry Supplies.

Just as the quarry operations are about to begin in good earnest it is not out of the way to call gir in good earnest it is not out of the way to call special attention to the advertisement of The Mulconroy Co., of 722 Arch Street, Philadelphia, who manufacture a full line of rubber goods especially designed for the use and convenience of the quarrymen. They issue a complete catalogue which exploits their line of rubber goods, beginning with hose for both air and steam which has proved in practice to be the most economical proposition of its kind now on the market and in connection with the hose, the Mulconroy coupling is explained in detail, which ingenious device is designed to eliminate one of the quarrymen's ever present troubles, and it is guaranteed that the Mulconroy coupling will not budge under a 1,000 pounds of pressure. "Kantcut" leather soled rubber boots as well as rubber coats and clothing are not overlcoked, besides every variety of supplies in the line of rubber that may be needed in quarrying opera-tions. Without the Mulconroy catalogue the equipment of information in the up-to-date quarrymen's office is incomplete and some important modern economics in danger of being overlooked.

#### Manufacture Chilled Shot.

The Vulcan Grit Works, of Zanesville, The Vulcan Grit Works, of Zanesville, Ohio, have entered the market manufacturing Vulcan Chilled Shot. Mr. Stanley A. Dodd, of the company, feels encouraged by the success the "Vulcan" brand has met and says that orders are forthcoming in abundance. While Mr. Dodd is in charge of the Zanesville office and factory of the company, Mr. C. H. Jones, of Quincy, Mass., is the New England agent and attends to the wants of their customers in that section of the country. Their product is used for rubbing, sawing and turning granife, marble, slate, onyx, hard country. Their product is used for rubbing, sawing and turning granite, marble, slate, onyx, hard and soft stones and finds a ready market wherever introduced. Owing to the increasing demand Mr. Dodd is thinking of increasing the output of the company's works.

## New Stone Dressing Machine.

The Thos. H. Dallett Co. are just announcing in the advertising department their new stone dressing machine which has features that deserve the attention of all interested parties.

The tool of the machine has received the most

painstaking care and attention and involves in its construction features that constitute a distinct advance in the construction of machines designed for this purpose. The simplicity of construction is to be noted, as, by taking off two nuts at the top of the tool, the valve box, valves, piston and barrel can be removed, and upon being replaced there are no adjustments to be made if the parts are replaced in their proper order and the nuts screwed down tight.

Economy in the use of air is a marked feature in this tool. At 80 pounds pressure, it will con-sume only about 50 cubic feet of free air per minute, and at lower pressures correspondingly less quantities. A great deal of attention has been paid in its designing, not only to render it long life but to reduce its air consumption to a mini-

All parts of the tool are made of the highest grade of material procurable, carefully hardened and accurately ground, and will stand the hardest and accurately ground, and will stand the nardest kind of use with a minimum expense for repairs. The exhaust hose can be attached to either side of the tool, blowing the dust from the working surface of the stone in either direction, as the operator may desire.

The Upright consists of two parallel bars, with separating pieces between, the whole securely riveted together. On the lower end of the standard is cast a massive cylindrical journal, becoming an integral part thereof and forming as a whole a

bifurcated rotable upright.

The above mentioned journal rests on the bottom of and rotates in the bearing formed in the upright extension of the base. This bearing is

lubricated with grease and protected from the cutting section of the stone-grit by a leather cap, which fits around the upright and over the top of bearing. The method of construction of this upright insures great stiffness and rigidity, and the right insures great stiffness and rightly, and the size of the journal bearing is so large and generous for the duty which it is called upon to perform, the bearing surface being 17 inches long and 6½ inches in diameter, that after years of service this bearing should not show appreciable

The horizontal arm carrying the tool-holder and tool is made of a 6-inch I-beam, the sides thereof being faced with oak. This horizontal arm travels forth and back on rollers mounted on the carrizge, this carriage being movable up and down on the upright by means of the hand-wheel, drum and ratchet, as shown in the cut,

and ratchet, as shown in the cut.

The position of this horizontal arm between the bars forming the upright, throws all the weight and strains directly through the center-line of said upright, which is a point of great importance in minimizing wear on upright, horizontal bar, carriage and rollers, and is conducive to the easy operation of a machine of this character.

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The rollers of the carriage, on which the horizontal arm travels back and forth, are a very hard cast iron, with case-hardened bushings inserted, rendering the wear of these parts very slight. The side plates and also the different parts of the tool holder are made of the finest quality of crucible steel casting, insuring almost absolute immunity from breakage of these parts.

Another important feature of the machine, the Another important feature of the machine, the principle of which is controlled exclusively by the Dallett company, is the providing of a spring device in the carriage, whereby a constant tension is maintained between it and the upright. This eliminates wear and rattling of the carriage on the upright, besides allowing a flexibility of movement, to a certain extent, of the tool over the inequalities of an uneven stone that is of great assistance to the operator.

The base of this machine weighs 700 pounds, which is sufficient to insure the stability of the machine when the carriage is at the top of the ubright and the arm fully extended, without the ne-

right and the arm fully extended, without the ne

right and the arm fully extended, without the necessity of weighing down or clamping to the track. The base is ordinarily furnished with flat wheels, as shown in the cut, but when desired, flanged wheels will be provided to enable the machine to be used on a track.

The net weight of the machine, complete, is 1,600 pounds, and when boxed for shipment, 1,900 reunds.

For the export trade a novel expedient has been adopted to save freight charges incident to forwarding to foreign countries the heavy from base. For export they provide what they term their "export base," which is simply the upright bearing, provided with a flange on the bottom, so that it was he belief to any description of base that the provided with a flange on the bottom, so that it may be bolted to any description of base that the fereign purchaser may desire. The weight of this bearing is about 200 pounds, so that when boxed for shipment the whole machine, with the export base, complete, weighs 1,400 pounds and occupies but 26 cubic feet.

With each machine is furnished one 25-foot length of hose, complete with nipples and special throttle cock, one exhaust hose, two bush tools, with extra sets of cuts, and four point chisels.

The Dallett Co. has had many years of experience in manufacturing this class of machinery and their experience has certainly been brought to bear in the production of this machine, as will be noted by the thoroughness with which all the details have been worked out and perfected to en-

details have been worked out and perfected to enable the machine to meet the severe conditions imposed upon it in service.

Further information and prices may be obtained from Thos. H. Dallett Co., Philadelphia, Pa.

The Sullivan Machinery Co., Chicago, Ill., reports the appointment of Mr. H. T. Walsh as manager for the Pacific Coast business with head-quarters with the well-known firm of Henshaw, nuarters with the well-known firm of Henshaw, Bulkley & Co., at San Francisco. Mr. Walsh has bad an extended experience with mining equipment, having represented the Sullivan Machinery Co., in the Rocky Mountain regions for a number of years. Henshaw Bulkley & Co., who have been the agents for the company for a long time will continue to carry a large line of Sullivan rock grills and compressers. arills and compressors.

The Wisconsin Monument Co. has been organized at Amberg, Wis., and has purchased the Pike Hill granite quarry, north of the village. The granite is a dark gray and is said to be excellent for monumental and building purposes.

#### To Test Fuels and Structural Materials.

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Through the efforts of the United States Geological Survey at Washington, D. C., a plan has been inaugurated for testing fuels and structural materials. The idea has met with general approval everywhere and an advisory board has been appointed and approved by President Roosevelt. The object of the movement is to bring into closer relation the government and the people, who will profit by the investigations of the national board. Below we give a full list of the members of the

beard, all of whom are well known and prominent in their special lines.

# LIST OF MEMBERS NATIONAL ADVISORY BOARD OF FUELS AND STRUCTURAL MATERIALS.

From the American Institute of Mining Engineers: John Hays Hammond, past president, Empire Building, New York; Robert W. Hunt (of Robert W. Hunt & Co., testing engineers, Chicago, Fittsburg and New York), Chicago, Ill.; B. F. Bush, manager and vice president, Western Coal and Mining Co., St. Louis, Mo.

From the American Institute of Electrical Engineers: Francis B. Crocker, professor of electrical engineering, Columbia University, New York; Henry C. Stott, superintendent, motive power, Interborough Rapid Transit Co., New

From the American Society of Civil Engineers: From the American Society of Civil Engineers: C. C. Schneider, president; chairman committee on concrete and reinforced concrete, Pennsylvania Building, Philadelphia, Pa.; George S. Webster, chairman committee on cement specifications, city engineer, City Hall, Philadelphia, Pa.

From the American Society of Mechanical Engineers: W. F. M. Goss, dean of the School of Engineering, Purdue University, LaFayette, Ind.; George H. Barrus, steam engineer, Pemberton Square, Boston, Mass.; P. W. Gates, 210 State Street, Chicago, Ill.

From the American Society for Testing Mate-

Street, Chicago, Ill.
From the American Society for Testing Materials: Charles B. Dudley, president, Altoona, Pa.; Robert W. Lesley, vice president, Pennsylvania Building, Philadelphia, Pa.
From the American Institute of Architects: George B. Post, past president, 33 East Seventeenth Street, New York; William S. Eames, past president, Lincoln Trust Building, St. Louis, Mo. From the American Railway Engineering and Maintenance of Way Association: H. G. Kelley, president, Minneapolis, Minn.; Julius Kruttschnitt, director of maintenance and operation. Un-

president, Minneapoils, Minn.; Julius Krutt-schnitt, director of maintenance and operation, Un-ion Pacific railroad, 135 Adams Street, Chicago, Ill.; Hunter McDonald, past president, chief en-gineer, Nashville, Chattanooga and St. Louis rail-

way, Nashville, Tenn.
From the American Railway Master Mechanics
Association: J. F. Deems, general superintendent
of motive power, New York Central lines, New
York; A. W. Gibbs, general superintendent of mo-

of motive power, New York Central lines, New York; A. W. Gibbs, general superintendent of motive power, Pennsylvania railroad, Altoona, Pa. From the American Foundrymen's Association: Richard Holdenke, secretary, Watchtung, N. J. From the Association of American Portland Cement Manufacturers: John B. Lober, president, Land Title Building, Philadelphia, Pa. From the Geological Society of America: Samuel Calvin, professor of geology, University of Iowa, Iowa City, Iowa: I. C. White, state geologist, Morgantown, W. Va. From the Iron and Steel Institute: Julian Kennedy, metallurgical engineer, Pittsburg, Pa.; C. S. Robinson, general manager Colorado Fuel and Iron Co., Denver, Col. From the National Association of Cement Users: Richard L. Humphrey, president, St. Louis, Mo. From the National Board of Fire Underwriters: Clas. A. Hexamer, chairman board of consulting experts, Bullitt Building, Philadelphia, Pa. From the National Brick Manufacturers' Association: John W. Sibley, treasurer, Sibley-Menge Press Brick Co., Birmingham, Ala.; Wm. D. Gates, American Terra Cotta and Ceramic Co., Chicago, Illinois.

Illinois.
From the National Fire Protective Association:
O. U. Crosby, chairman executive committee, 76
William Street, New York.
From the National Lumber Manufacturers' Association: Nelson W. McLeod, president, Equitable Building, St. Louis, Mo.: John L. Kaul, president Yellow Pine Manufacturers' Association, Birmingham, Ala.
From the Corps of Engineers, U. S. Army: Lieut, Col. Wm. L. Marshall, Army Building, New York.

From the Isthmian Canal Commission: Lieut. Col. O. H. Ernst, Washington, D. C. From the Bureau of Yards and Docks, U. S.

Navy: Civil Engineer Frank T. Chambers. Wash ington, D. C.
From the Supervising Architect's Office, U. S.

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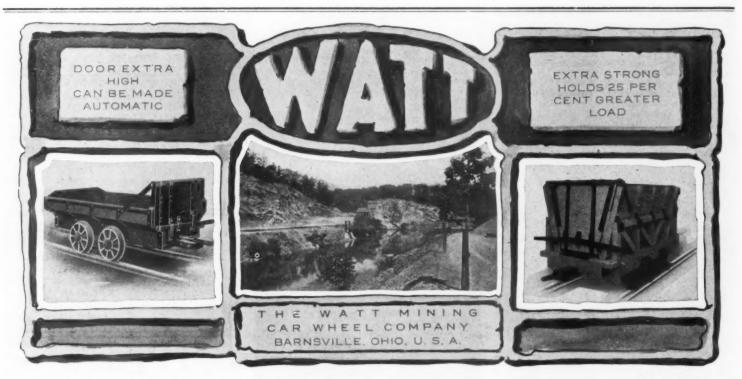
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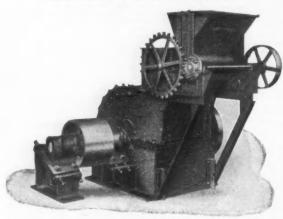
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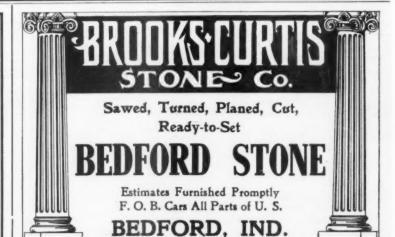
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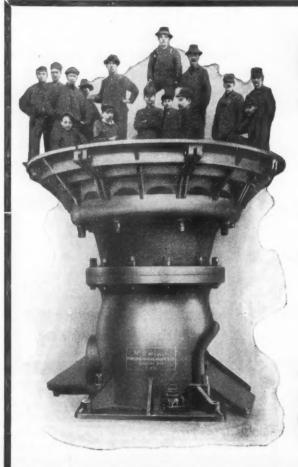
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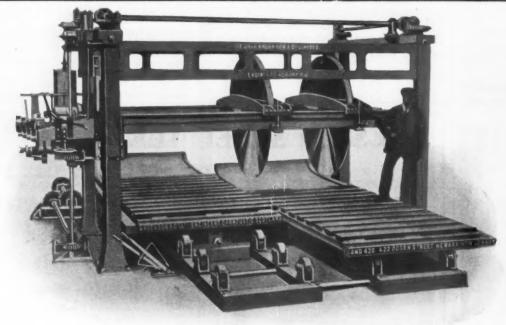
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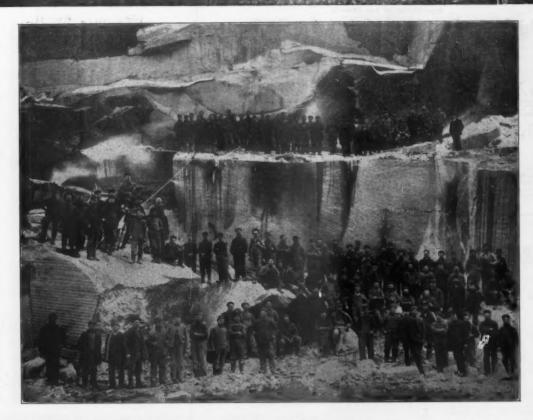
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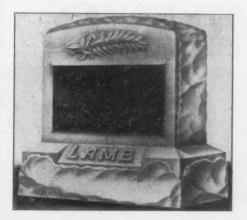
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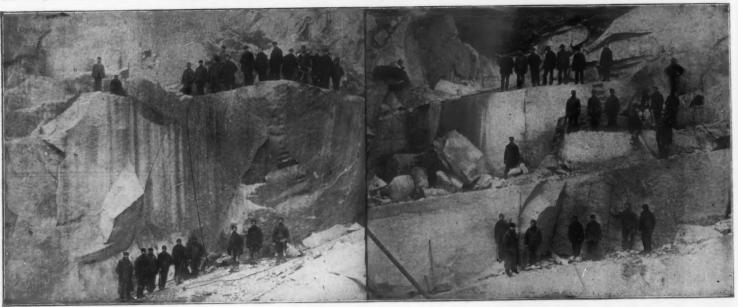
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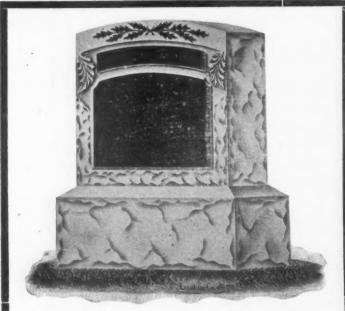
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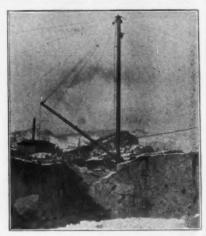
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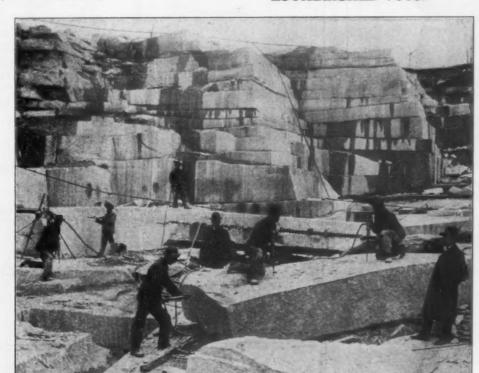
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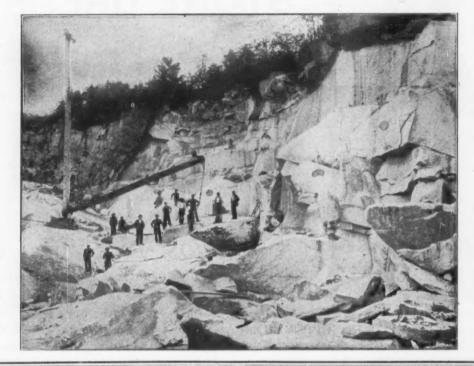
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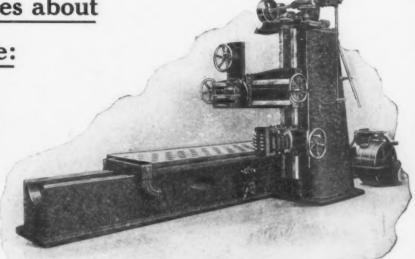
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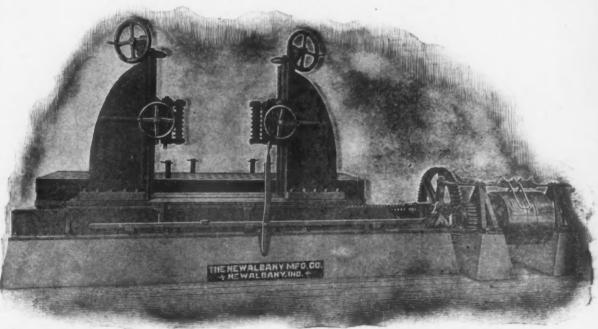
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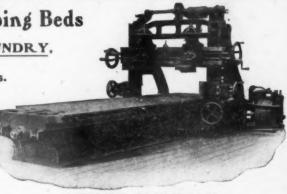
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